City of Tampa
Jane Castor, Mayor

Contract Administration
Michael W. Chucran, Director
306 East Jackson Street, 4N
Tampa, FL 33602

Office (813) 274-8116
Fax: (813) 274-7368

ADDENDUM 2
Via E-Mail
DATE: September 13, 2022

Contract: 22-C-00009; Armenia, Howard, Columbus Gravity Sewer CIPP Lining

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

Item 1: Replace Proposal page P-2 with the attached Proposal page P-2R.

Item 2: Replace the Plans with the attached Plans.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to ContractAdministration@tampagov.net.

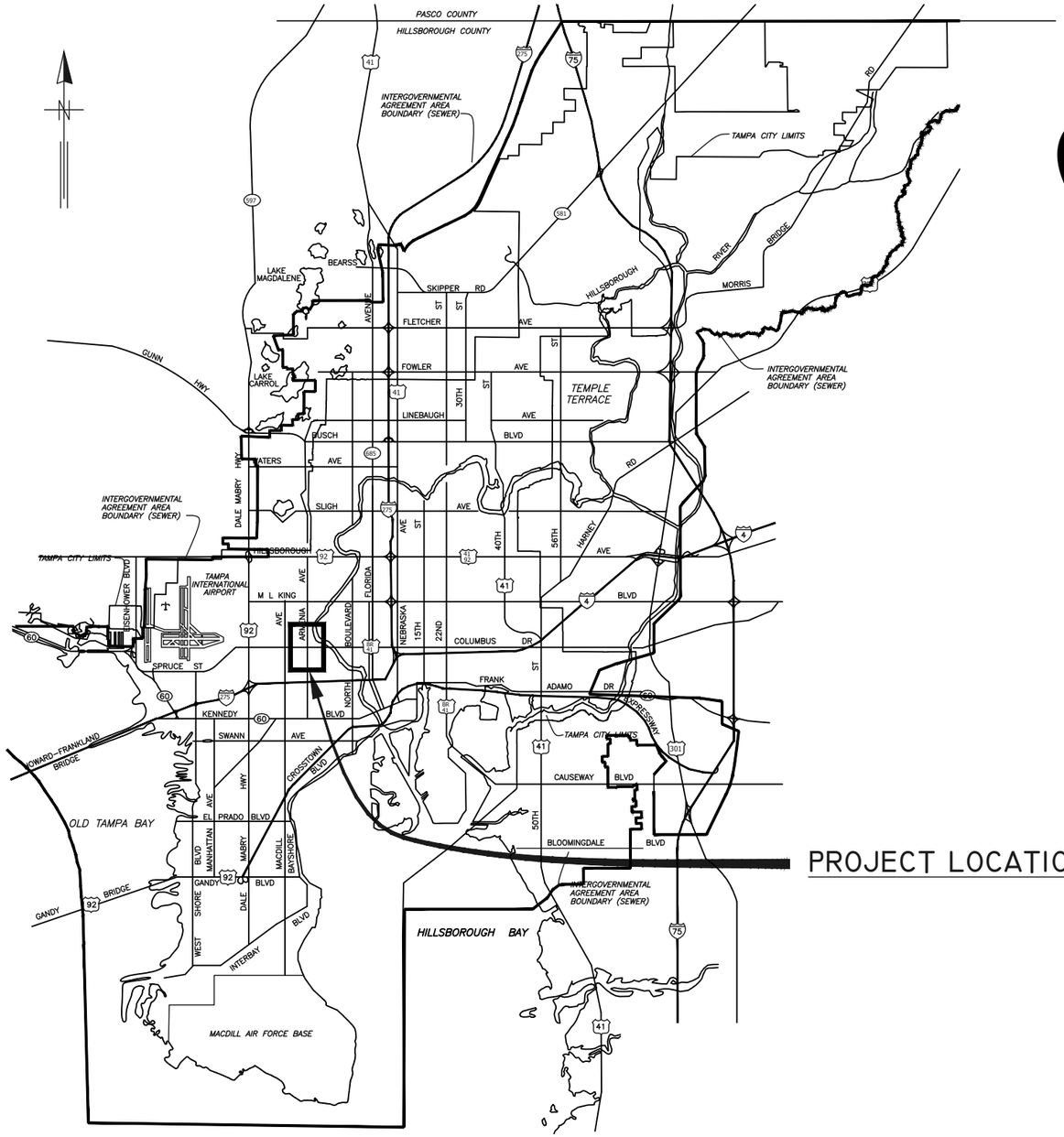
Jim Greiner

Jim Greiner, P.E., Contract Management Supervisor

Contract: 22-C-00009
Armenia, Howard, Columbus Gravity Sewer CIPP Lining

Item No.	Item	Unit	Quantity	Unit Price in Words	Unit Price	Total
100	Contingency	LS	1	one hundred thousand dollars	$ 100,000.00	$ **100,000.00**
102	Maintenance of Traffic	LS	1			$ -
0408.2360	Cured in Place Pipe for 8" Dia. Gravity Sewer (.236 inch thick)	LF	31,583			$ -
0410.2950	Cured in Place Pipe for 10" Dia. Gravity Sewer (.295 inch thick)	LF	3,098			$ -
0412.2950	Cured in Place Pipe for 12" Dia. Gravity Sewer (.295 inch thick)	LF	729			$ -
0415.2950	Cured in Place Pipe for 15" Dia. Gravity Sewer (.295 inch thick)	LF	132			$ -
0421.4130	Cured in Place Pipe for 21" Dia. Gravity Sewer (.413 inch thick)	LF	597			$ -
0424.4720	Cured in Place Pipe for 24" Dia. Gravity Sewer (.472 inch thick)	LF	488			$ -
0601.08	Hydraulic Cleaning & Inspection of 8" Dia. Gravity Sewer	LF	30,702			$ -
0601.10	Hydraulic Cleaning & Inspection of 10" Dia. Gravity Sewer	LF	3,098			$ -
0601.12	Hydraulic Cleaning & Inspection of 12" Dia. Gravity Sewer	LF	86			$ -
0601.15	Hydraulic Cleaning & Inspection of 15" Dia. Gravity Sewer	LF	116			$ -
0601.21	Hydraulic Cleaning & Inspection of 21" Dia. Gravity Sewer	LF	597			$ -
0601.24	Hydraulic Cleaning & Inspection of 24" Dia. Gravity Sewer	LF	488			$ -
0602.08	Mechanical Cleaning & Inspection of 8" Dia. Gravity Sewer	LF	6,317			$ -
0602.10	Mechanical Cleaning & Inspection of 10" Dia. Gravity Sewer	LF	620			$ -
0602.12	Mechanical Cleaning & Inspection of 12" Dia. Gravity Sewer	LF	146			$ -
0602.15	Mechanical Cleaning & Inspection of 15" Dia. Gravity Sewer	LF	26			$ -
0602.21	Mechanical Cleaning & Inspection of 21" Dia. Gravity Sewer	LF	119			$ -
0602.24	Mechanical Cleaning & Inspection of 24" Dia. Gravity Sewer	LF	98			$ -
0621.08	Cleaning & Inspection of Tuberculated Cast Iron or Ductile Iron Sewer, 8" Dia.	LF	881			$ -
0621.12	Cleaning & Inspection of Tuberculated Cast Iron or Ductile Iron Sewer, 12" Dia.	LF	643			$ -
0621.15	Cleaning & Inspection of Tuberculated Cast Iron or Ductile Iron Sewer, 15" Dia.	LF	16			$ -
0700	Disposal of Debris	CY	150			$ -
2050	Reconnect Service Connections	EA	972			$ -
2051	Removal of Protruding Services	EA	2			$ -
2052	Root Removal	LF	100			$ -
2053.08	Chemical Grouting Lateral after Lining in 8" Gravity Sewer	EA	889			$ -
2053.10	Chemical Grouting Lateral after Lining in 10" Gravity Sewer	EA	57			$ -
2053.12	Chemical Grouting Lateral after Lining in 12" Gravity Sewer	EA	9			$ -
2053.24	Chemical Grouting Lateral after Lining in 24" Gravity Sewer	EA	6			$ -
4600.1p	Small Size Manhole Frame and Cover Replacement	EA	16			$ -
4600.2p	Large Size Manhole Frame and Cover Replacement	EA	1			$ -
4800	Manhole Rehabilitation by Coating System min. 250 mils thickness	SF	10,520			$ -
9000	Sewer Bypass with Tanker Truck	HRS	50			$ -
9050.08	Sewage Bypass Pumping for 8" Dia. Sewer	LF	31,583			$ -
9050.10	Sewage Bypass Pumping for 10" Dia. Sewer	LF	3,098			$ -
9050.12	Sewage Bypass Pumping for 12" Dia. Sewer	LF	729			$ -
9050.15	Sewage Bypass Pumping for 15" Dia. Sewer	LF	132			$ -
9050.21	Sewage Bypass Pumping for 21" Dia. Sewer	LF	597			$ -
9050.24	Sewage Bypass Pumping for 24" Dia. Sewer	LF	488			$ -
					TOTAL	

LOCATION MAP



PROJECT LOCATION

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.

CITY of TAMPA

WASTEWATER DEPARTMENT
ENGINEERING DIVISION

PLANS FOR

ARMENIA/HOWARD/COLUMBUS CIPP LINING

SYSTEM REHABILITATION

CONTRACT NO. 22-C-00009

#	DATE	REVISIONS
1		
2		
3		

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

DES: DR
DRN: GP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

COVER

SHEET 1

B-1-1

\\sewer\SewerShare\WasteWater Projects\Armenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Jun 20, 2022 - 10:35am

GENERAL NOTES

1. THE SCOPE OF THIS PROJECT SHALL CONSIST OF REHABILITATION OF 8", 10", 12", 15", 21" AND 24" DIAMETER 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 20–92 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. A CITY OF TAMPA RIGHT OF WAY ACCELA PERMIT SHALL BE SUBMITTED FOR EACH ROADWAY AT THE FOLLOWING WEBSITE HTTP://ACA.TAMPAGOV.NET/

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.

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 350 GPM FOR 8" PIPE, 550 GPM FOR 10" PIPE, 800 GPM FOR 12" PIPE, 1,200 GPM FOR 15", 2,200 GPM FOR 21" PIPE & 2,900 GPM FOR 24" PIPE. 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 SHALL BE PER "PROPOSED CIPP LINER THICKNESS" TABLE ON THIS SHEET.

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 HARNESSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.

13. THIS PROJECT INCLUDES REHABILITATION OF MANHOLES BY APPLICATION OF A STRUCTURAL COATING SYSTEM AND ALL APPURENTANCES ASSOCIATED WITH THE PROJECT.

14. 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.

15. ALL EXPOSED STEEL REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF ANY DETERIORATION/RUST AND COATED WITH THE PROPOSED COATING SYSTEM.

16. 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.

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

INDEX	
Sheet Number	DESRIPTION
1	COVER
2	NOTES
3	OVERVIEW LOCATION MAP
4 – 17	AREA MAPS
18	MANHOLE DETAIL
19	MANHOLE DETAILS
20 – 92	WASTEWATER RECORD DRAWINGS FOR REFERENCE

PROPOSED CIPP LINER THICKNESS		
PIPE SIZE	(IN)	(MM)
8"	0.236	6.0
10"	0.295	7.5
12"	0.295	7.5
15"	0.295	7.5
21"	0.413	10.5
24"	0.472	12.0

** 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.

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

#	DATE	REVISIONS
1		
2		
3		

DES: DR
DRN: GP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

NOTES

SHEET 2

User: ssh5 Drawing Name: K:\WasteWater Projects\Armenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
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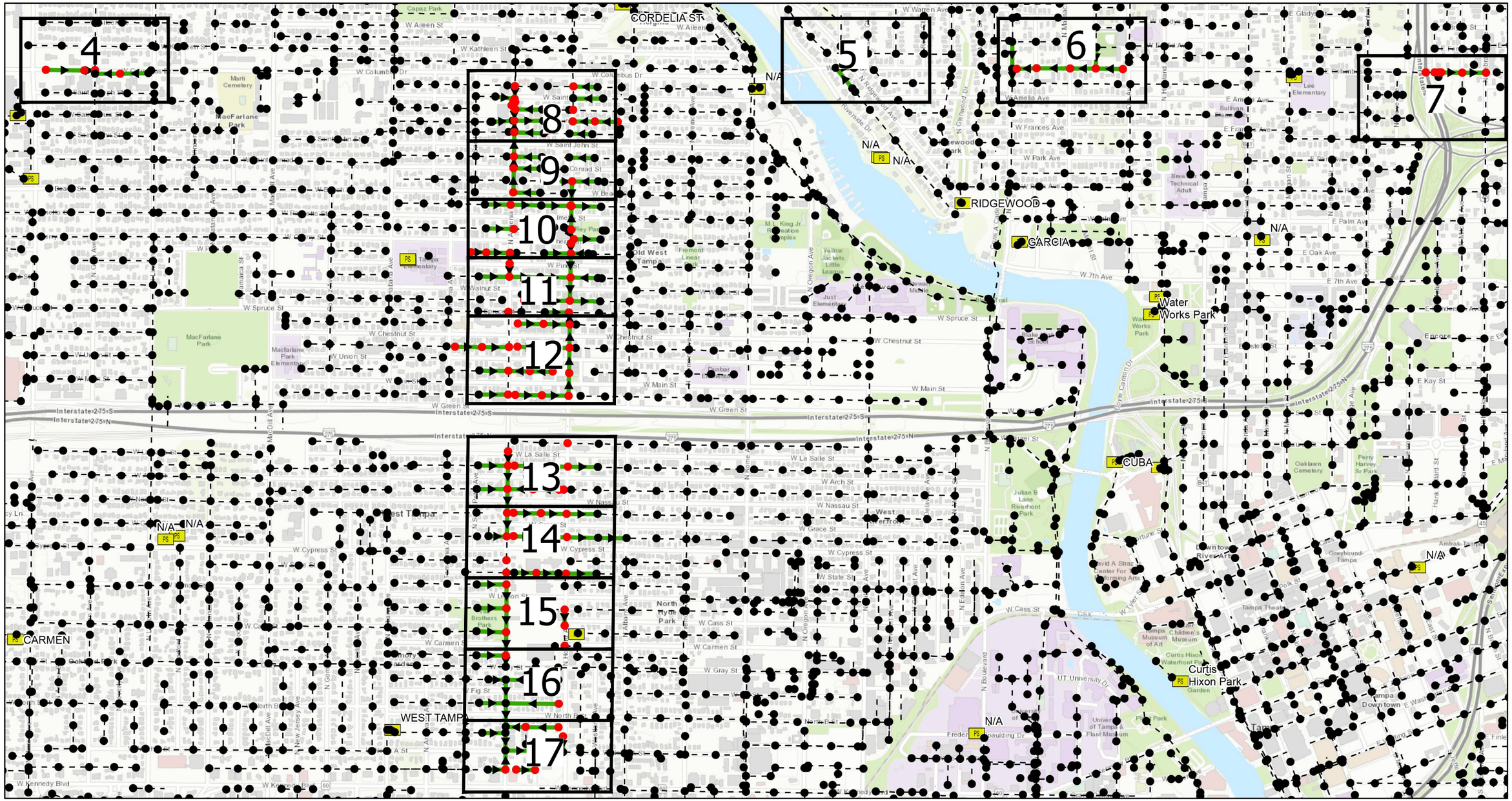

Legend

- Ex Manhole (no rehabilitation required)
- Proposed Manhole Rehabilitation
- Ex Wastewater (no rehabilitation required)
- Proposed Lining Area

	#	DATE	REVISIONS			
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	1			DES: DR DRN: GP CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	Armenia/Howard/Columbus CIPP Lining OVERVIEW LOCATION MAP	SHEET 3
	2						
	3						

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 4:02pm CTB - MONO -RED-GREEN.CTB TOSHIBE_UNL_COLOR (NORTH WING)

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

Legend

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- Proposed Manhole Rehabilitation
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N

#	DATE	REVISIONS	DES:	DR
1			DRN:	GP
2			CKD:	
3			DATE:	

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

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(1)

SHEET 4

B-1

Legend

- Ex Manhole (no rehabilitation required)
- Proposed Manhole Rehabilitation
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- Proposed Lining Area

N

	#	DATE	REVISIONS	DES:	DR
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	1			DRN:	GP
	2			CKD:	
	3			DATE:	

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(2)

SHEET 5

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

Legend

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1			DRN:	GP
2			CKD:	
3			DATE:	

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

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(3)

SHEET 6

B-1

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 4:02pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

Legend

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N

#	DATE	REVISIONS	DES:	DR
1			DRN:	GP
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3			DATE:	

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

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(4)

SHEET 7

B-1

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

Legend

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- Ex Wastewater (no rehabilitation required)
- Proposed Lining Area

N

#	DATE	REVISIONS	DES:	DR
1			DRN:	GP
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3			DATE:	

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

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(5)

SHEET
8

B-1

Legend

- Ex Manhole (no rehabilitation required)
- Proposed Manhole Rehabilitation
- Ex Wastewater (no rehabilitation required)
- Proposed Lining Area

N

	#	DATE	REVISIONS	DES:	DR
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	1			DRN:	GP
	2			CKD:	
	3			DATE:	

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(6)

SHEET 9

B

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

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Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

Legend

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#	DATE	REVISIONS	DES:	DR
1			DRN:	GP
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3			DATE:	

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

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(7)

SHEET
10

B-1

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

Legend

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N

	#	DATE	REVISIONS	DES:	DR
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	1			DRN:	GP
	2			CKD:	
	3			DATE:	

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(8)

SHEET
11

B-1



Legend

- Ex Manhole (no rehabilitation required)
- Proposed Manhole Rehabilitation
- Ex Wastewater (no rehabilitation required)
- Proposed Lining Area

#	DATE	REVISIONS	DES:	DR
1			DRN:	GP
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3			DATE:	

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

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(9)

SHEET 12

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

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WASTEWATER DEPARTMENT

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(10)

SHEET
13

B-1

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
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CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(11)

SHEET
14

B-1

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
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CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(12)

SHEET
15

B-1

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

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

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

AREA MAP(13)

SHEET
16

User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm CTB - MONO -RED-GREEN.CTB TOSHIB-_UNI_COLOR (NORTH WING)

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DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

CITY of TAMPA
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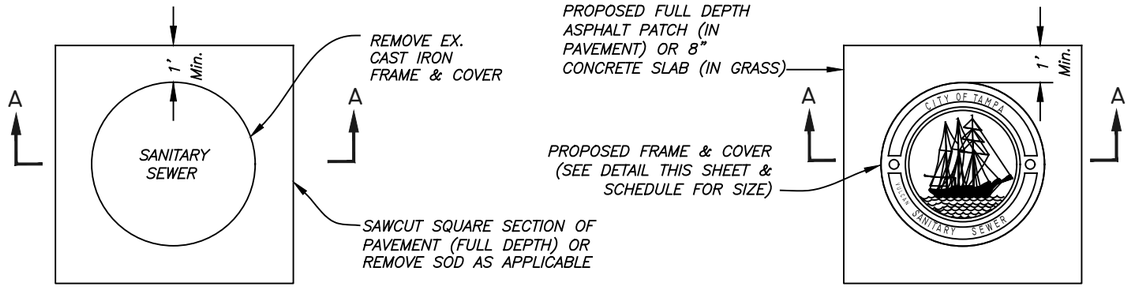
Armenia/Howard/Columbus CIPP Lining

AREA MAP(14)

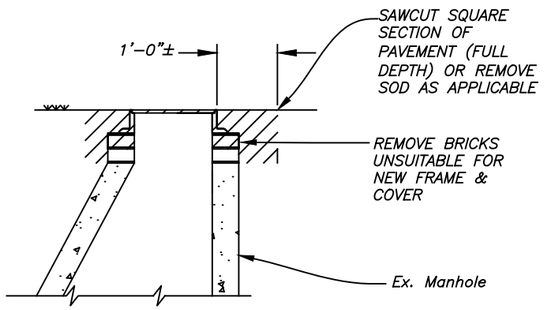
SHEET
17

ASPHALT RESTORATION NOTE

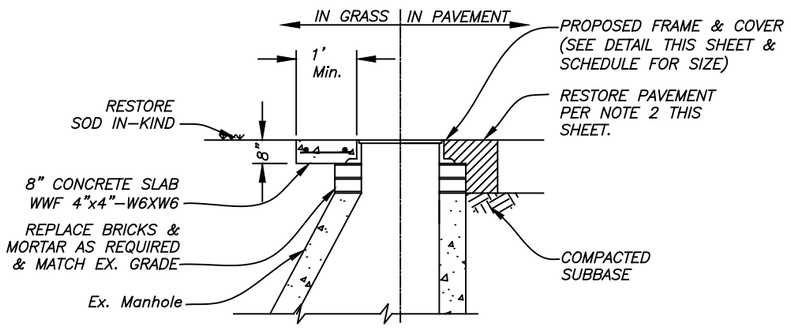
PAVEMENT RESTORATION SHALL CONSIST OF 12" PERMANENT BASE (CRUSHED CONCRETE) AND 2" PERMANENT ASPHALT SUPERPAVE PAVEMENT, UNLESS OTHERWISE NOTED. IF LOCATED IN D.O.T. ROW, AN ADDITIONAL 1 1/2" SUPER PAVE ASPHALT IS REQUIRED.



PLAN

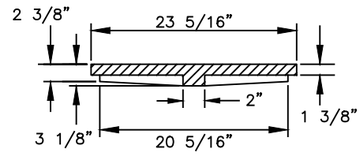


SECTION A-A
REMOVAL DETAIL

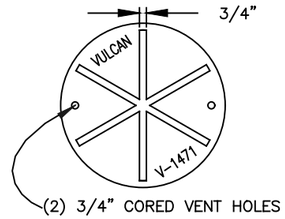


SECTION B-B
REPLACEMENT
DETAIL

SMALL COVER DETAIL



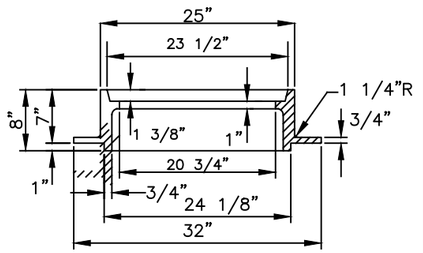
COVER SECTION



COVER BACK



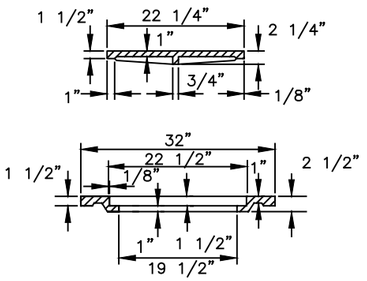
COVER FACE



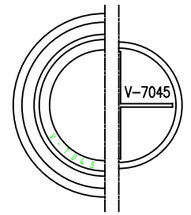
FRAME SECTION

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

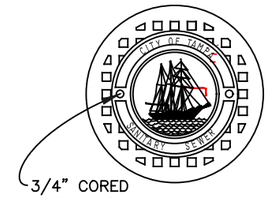
LARGE COVER DETAIL



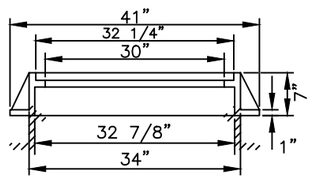
INNER & OUTER COVER SECTIONS



COVER BACKS



COVER FACES



FRAME SECTION

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

#	DATE	REVISIONS
1		
2		
3		

DES: DR
DRN: GP
CKD:
DATE:

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

CITY of TAMPA
WASTEWATER DEPARTMENT

Armenia/Howard/Columbus CIPP Lining

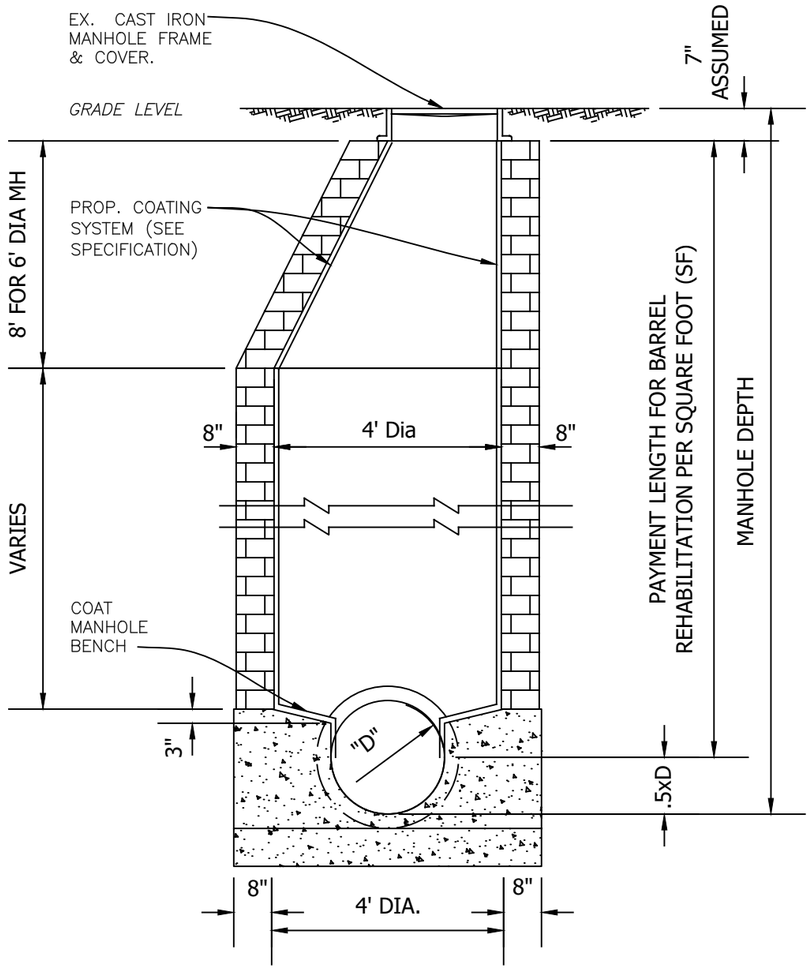
MANHOLE DETAIL

SHEET 18

User: ssh5 Drawing Name: K:\WasteWater Projects\Armenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm

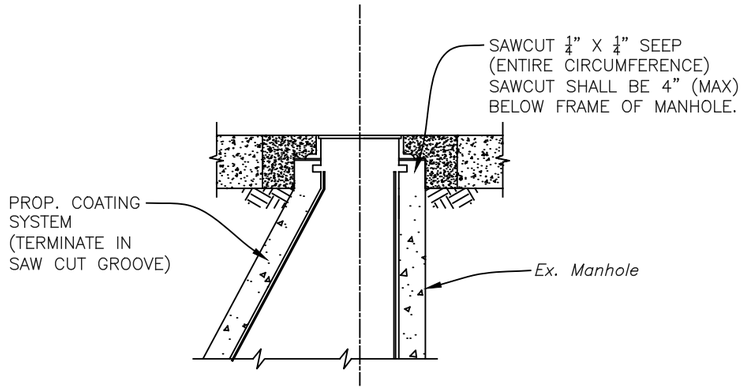
NOTES

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.*



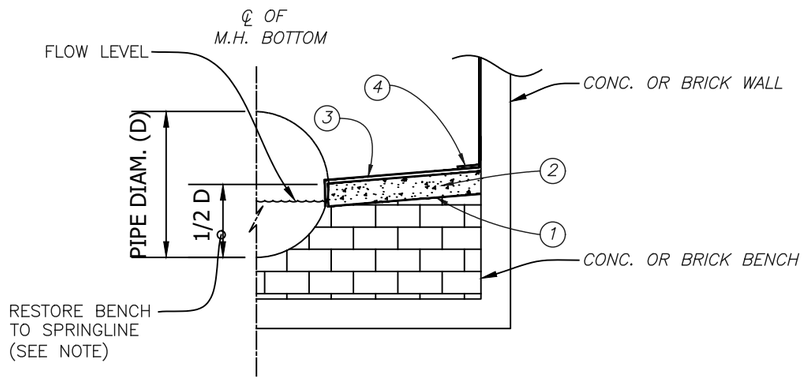
BRICK OR CONCRETE MANHOLE (TYPICAL)

SCALE: N.T.S.



COATING TERMINATION DETAIL

SCALE: N.T.S.

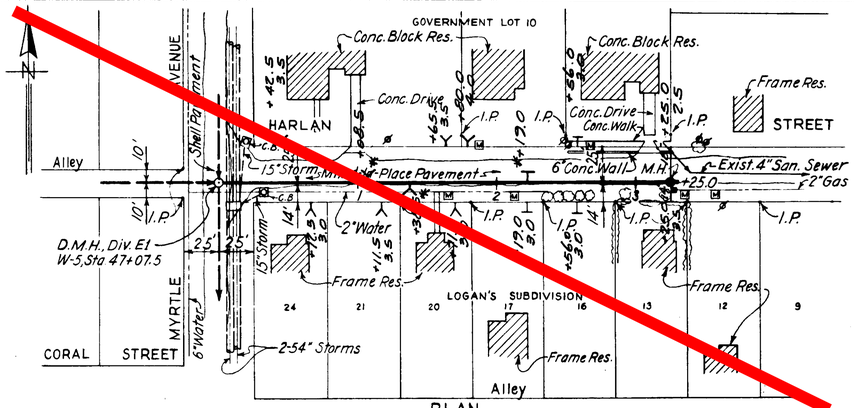


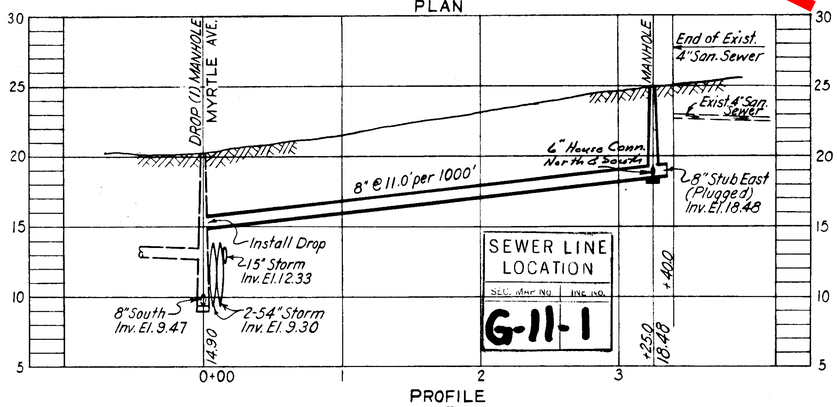
TYPICAL MANHOLE BENCH RESTORATION DETAIL

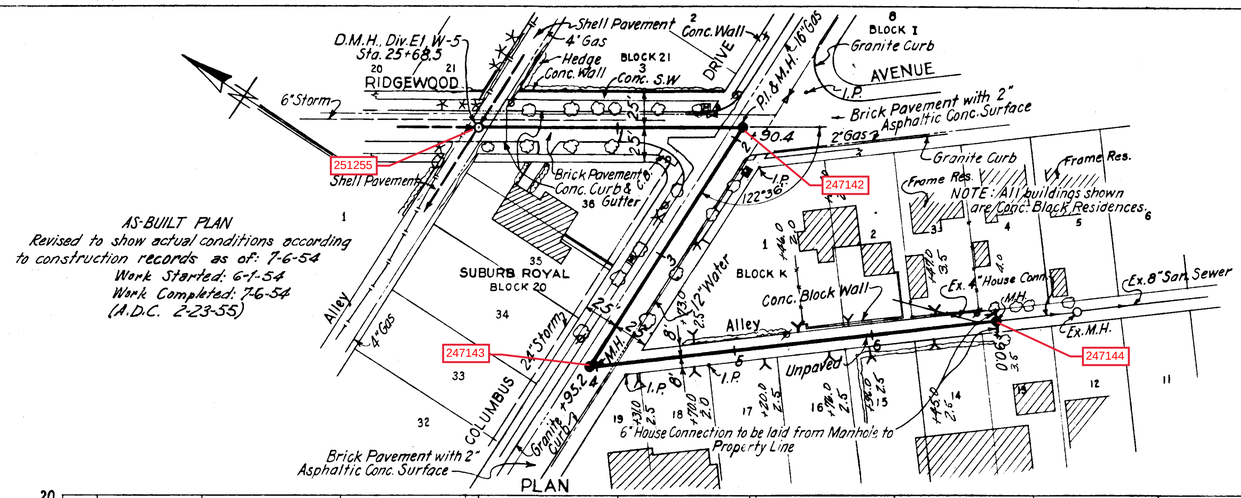
SCALE: N.T.S.

	#	DATE	REVISIONS			
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	1			DES: DR DRN: GP CKD:	CITY of TAMPA WASTEWATER DEPARTMENT	Armenia/Howard/Columbus CIPP Lining MANHOLE DETAILS	SHEET 19
	2						
	3						

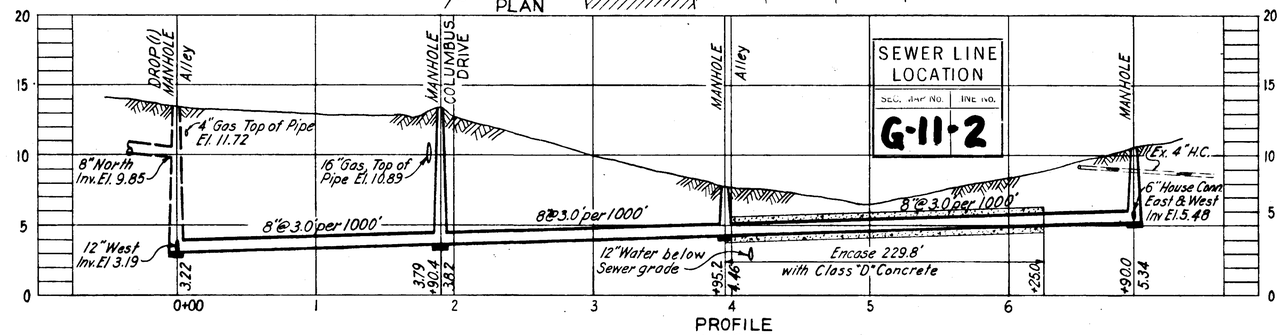
User: ssh5 Drawing Name: K:\WasteWater Projects\-rmenia-Howard-Columbus Gravity Sewer CIPP Lining\Drafting\DWG\cipp lining.dwg
Layout- Sep 07, 2022 - 3:51pm



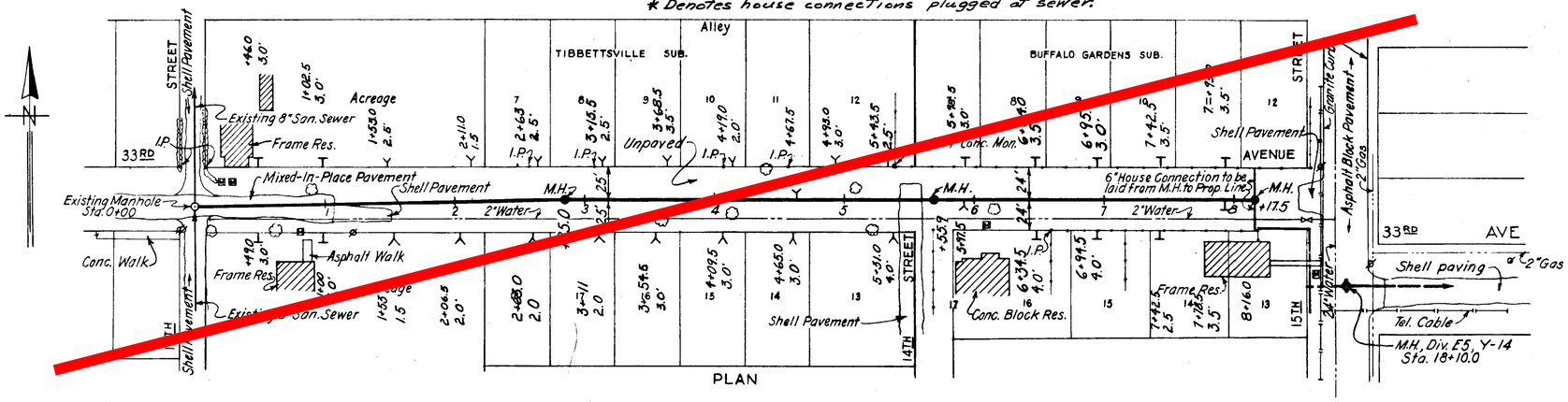




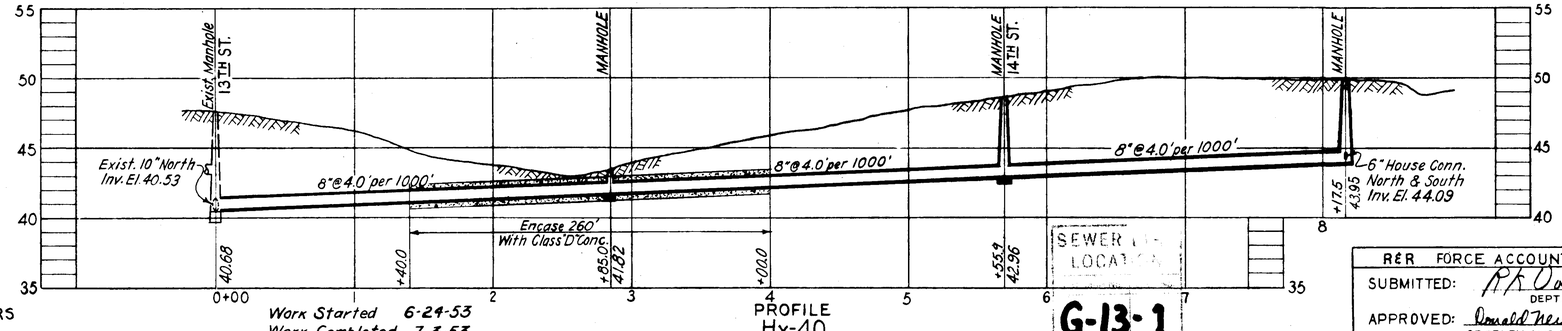
AS-BUILT PLAN
Revised to show actual conditions according to construction records as of: 7-6-54
Work Started: 6-1-54
Work Completed: 7-6-54
(A.D.C. 2-23-55)



* Denotes house connections plugged at sewer.



NOTE:
1. All Property Lines shown are from Plat and Tax Book Records.
2. All House Connections to be laid at 1/8" per Ft. from new sewer to Property Line.
3. House Connections, on Sewer Hx-40, between Sta. 1+40.0 and Sta. 4+00.0 to be encased with Class "D" concrete from new sewer to Property Line.
4. House Connections, on Sewer W-5-R, between Sta. 3+95.2 and Sta. 6+25.0 to be encased with Class "D" concrete from new sewer to Property Line.



Work Started 6-24-53
Work Completed 7-3-53

DEPT. OF PUBLIC WORKS
BUREAU OF SANITARY SEWERS

CITY OF TAMPA, FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER EXTENSIONS IN CENTRAL AREA

Hx-40, W-5-R & W-5-S
Hx-40 & W5-S, BUILT F.A. 23

R&R FORCE ACCOUNT No 1
SUBMITTED: R.K. Van Bourg — DEPT. OF PUBLIC WORKS
APPROVED: Donald Newton 9-9-52 — GREELEY AND HANSEN, ENGINEERS

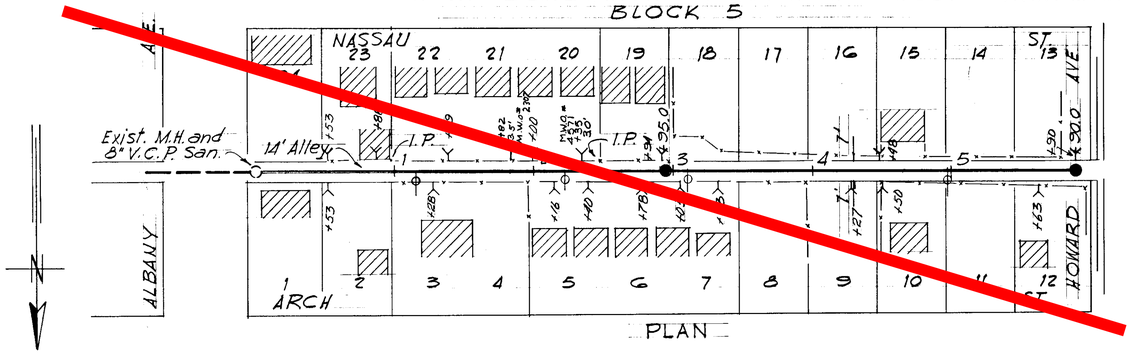
DES: REA-BOH
DR: R.M.J.
CKD: W.W.S.
DATE SEPT. 1952

SCALE 50 0 50 100 1" = 50'

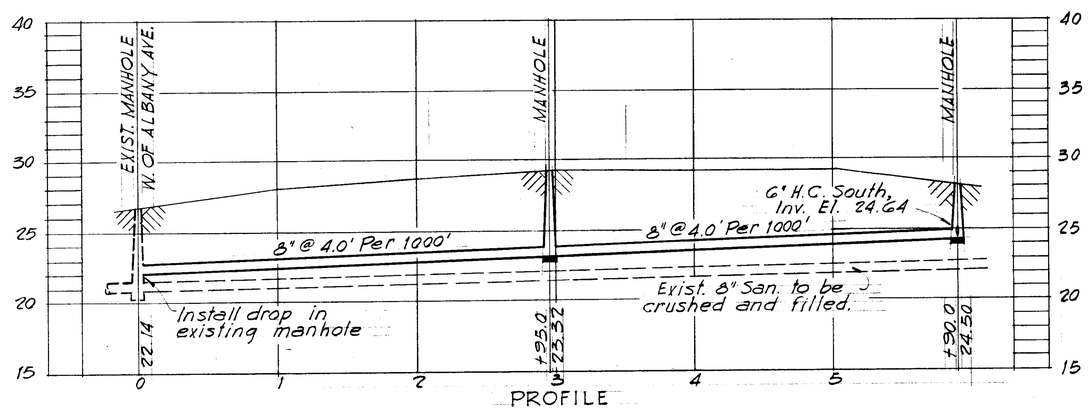
SHEET 1 OF 32

1-1

G. N. BENJAMIN'S ADD'N TO WEST TAMPA
BLOCK 5



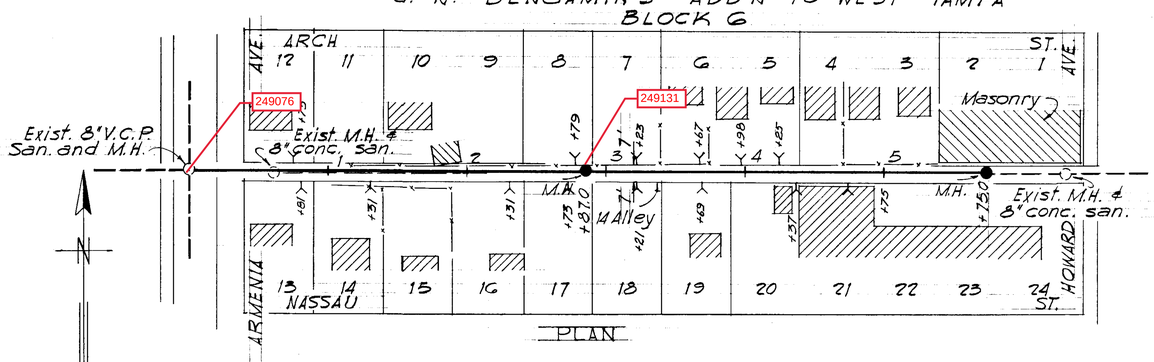
PLAN



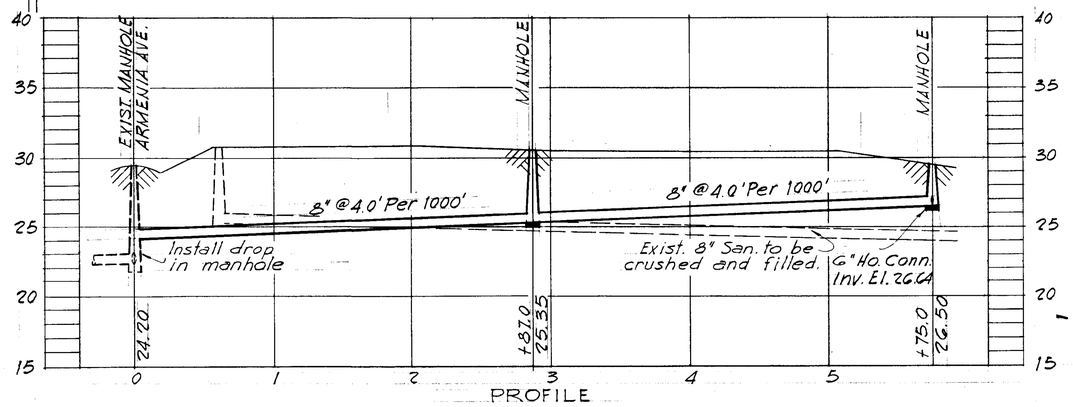
PROFILE

RWT-4
WO-1116

G. N. BENJAMIN'S ADD'N TO WEST TAMPA
BLOCK 6

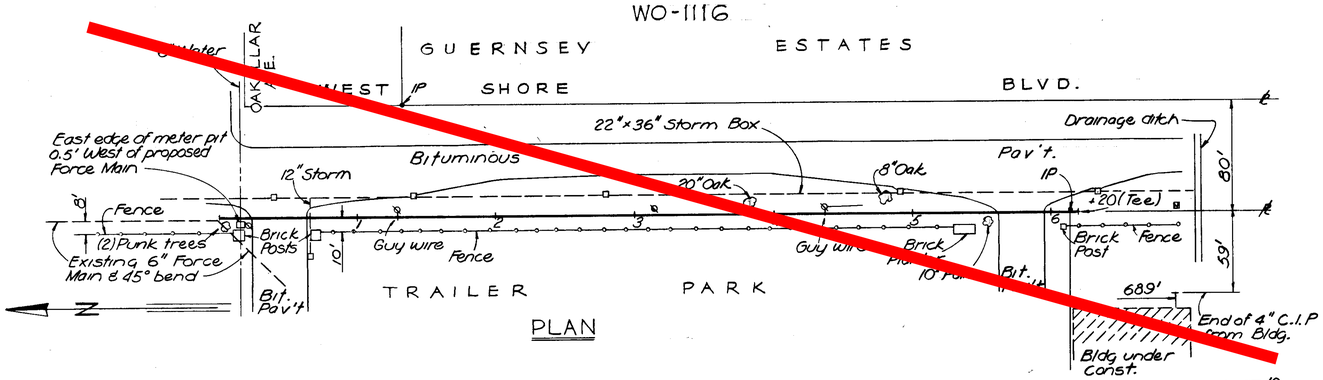


PLAN

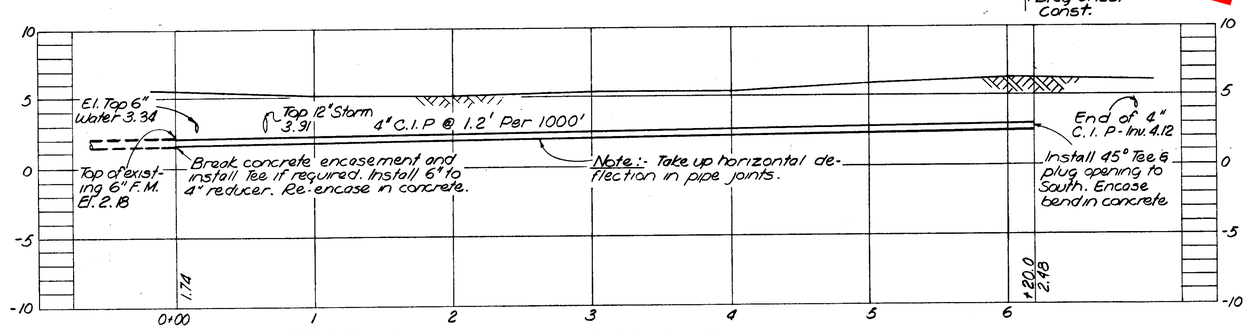


PROFILE

RWT-5
WO-1116



PLAN



PROFILE

EXTENSION OF GUERNSEY TRAILER PARK FORCE MAIN
WO-1174

CITY OF TAMPA FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

RWT-4, RWT-5
GUERNSEY TRAILER PARK FORCE MAIN

R&R FORCE ACCOUNT NO. 23

SUBMITTED: _____
BUREAU OF SANITARY SEWERS

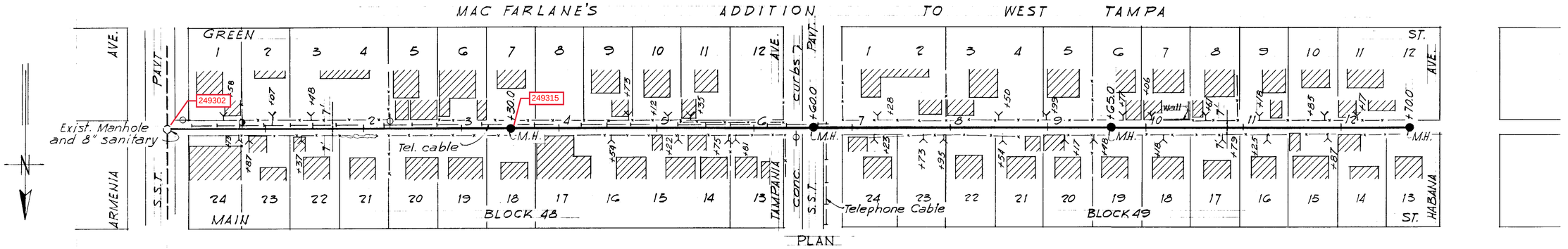
APPROVED: _____
GREELEY AND HANSEN ENGINEERS

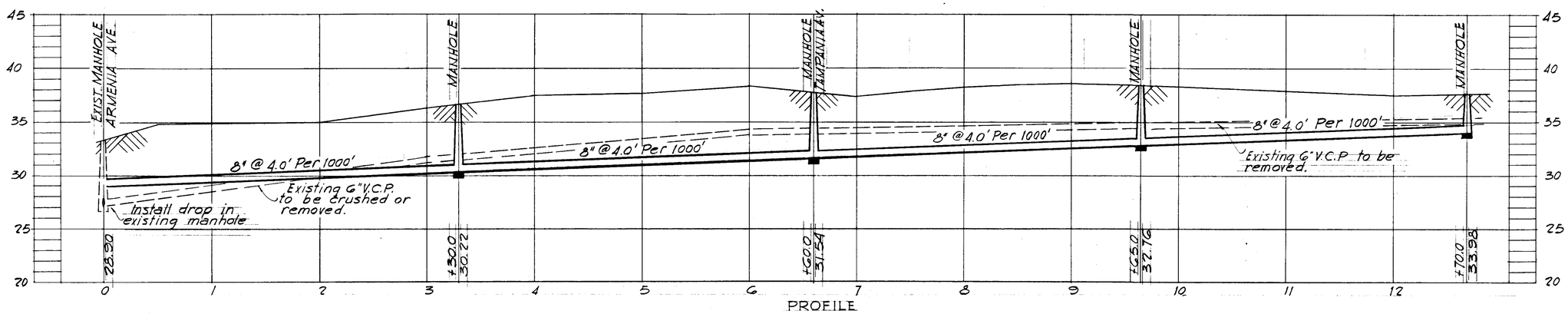
DES: EA, RVJ
DR: ECA
CK'D: REF
DATE JULY 1960

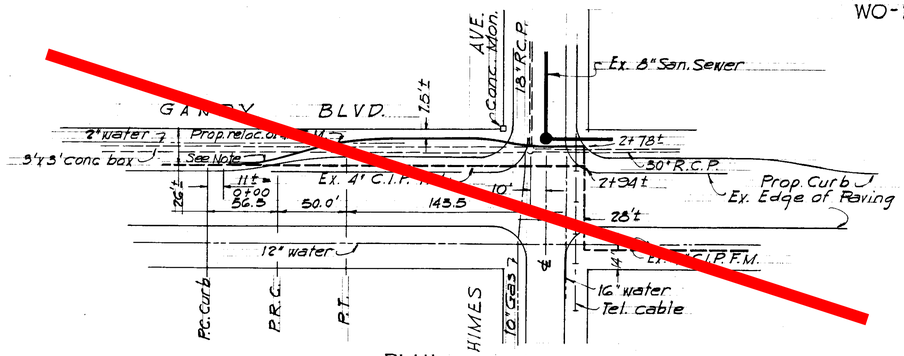
1" = 50'

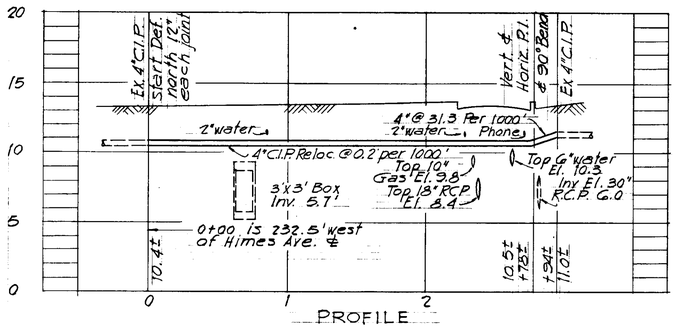
SHEET 2 OF 8

2-26









NOTE:
Deflect each 16' length of pipe 12" to fit route shown.

RELOCATION OF FORCE MAIN, GANDY BLVD. AT HIMES AVE.
WO. 1195
Des. 8-11-60 CMT

CITY OF TAMPA FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

RWT-7, RELOC. OF FORCE MAIN, GANDY AT HIMES

R & R FORCE ACCOUNT NO. 23

SUBMITTED: C. M. Bowman
BUREAU OF SANITARY SEWERS

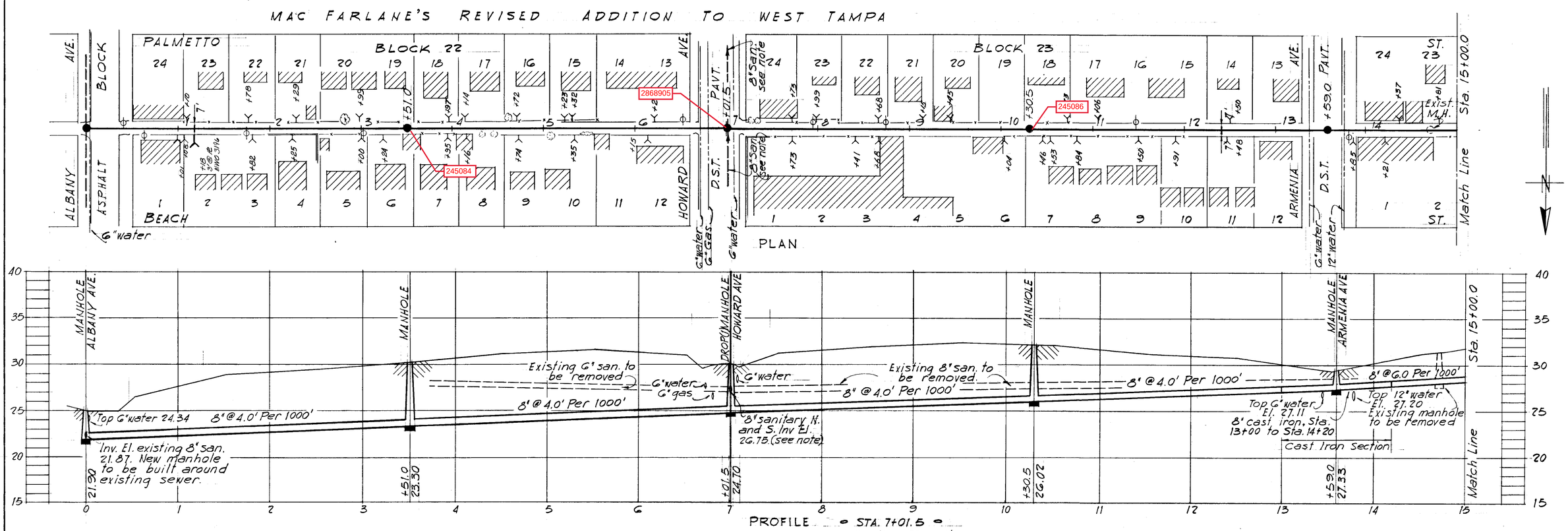
APPROVED: Richard E. Greene
GREELEY AND HANSEN ENGINEERS

DES: ECA
DR: ECA.CMT
CKD: REF
DATE: AUG., 1960

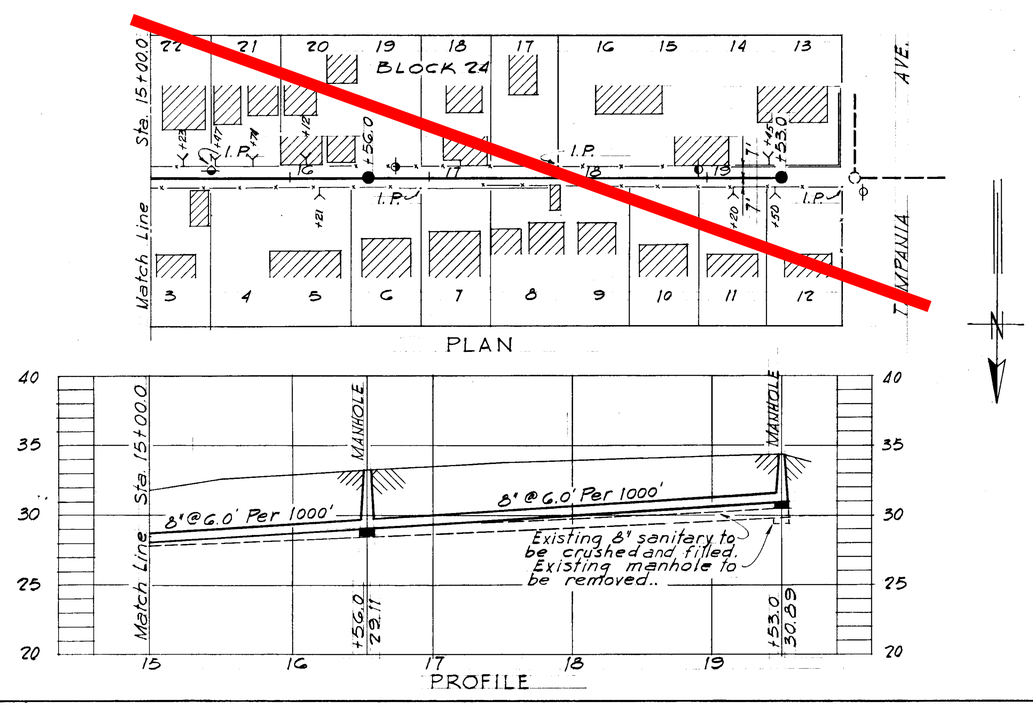
1" = 50'

SHEET 4 OF 8

2-28



NOTE: Existing 8" sanitary from the North will be picked up in the new drop manhole and will then flow east, that portion to the south will remain in operation and continue to flow south. The new manhole will serve as a cleanout and access to that line flowing south.



WO-1116

CITY OF TAMPA FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

RWT-8

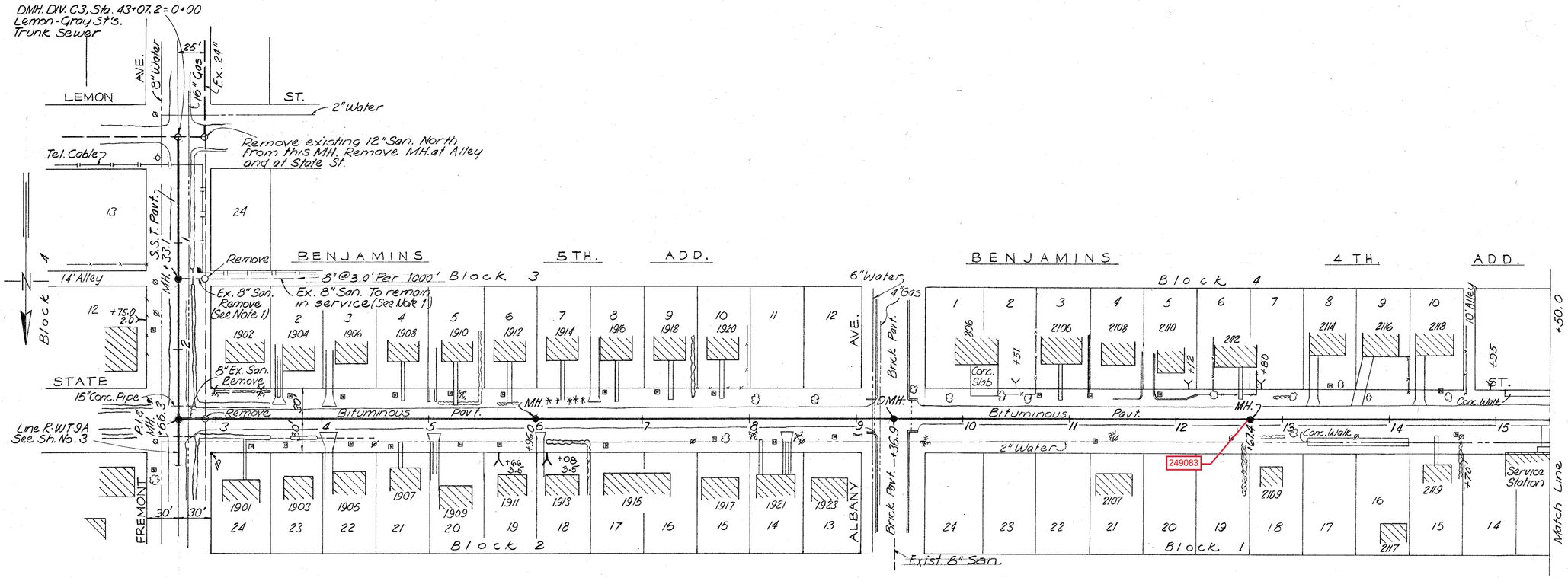
R&R FORCE ACCOUNT NO. 23
SUBMITTED: [signature]
BUREAU OF SANITARY SEWERS
APPROVED: [signature]
GREELEY AND HANSEN ENGINEERS

DES: ECA
DR: ECA
CKD: REF
DATE AUG, 1960

50 0 50 100
1" = 50'

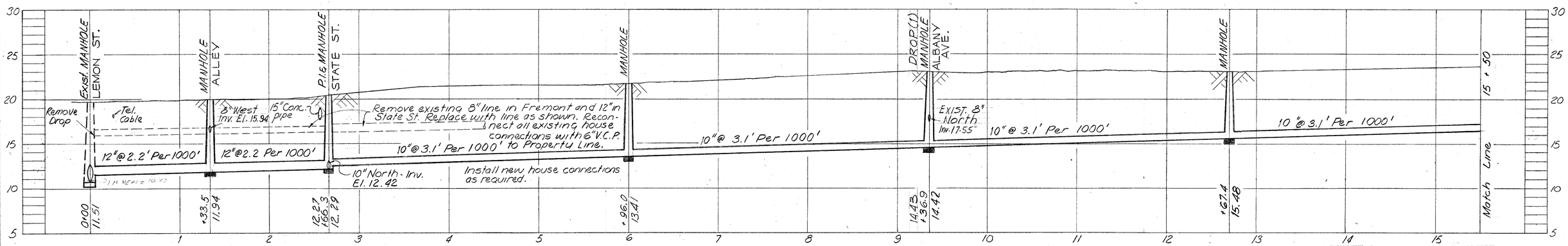
SHEET 5 OF 8

2-29



PLAN

NOTE :- HOUSE CONNS. ARE FROM DAILY REPORTS



PROFILE
RWT-9

NOTE :-
Match slope of existing 8" Sanitary and connect to new Manhole in Fremont Ave.

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of Sept. 1961
(J.M.R. 9-29-61)

WORK ORDER NO. 1184
R. & R. FORCE ACCOUNT NO. 20

FOR BUREAU OF SANITARY SEWERS
DEPT. OF PUBLIC WORKS

REC'M'D Arthur S. Cooper Jr. Date 11-7-60
Executive Engineer

APPROVED [illegible] Date 11-7-60
Superintendent

APPROVED Roy E. Chancey Date 11-15-60
Supt. Dept. of Public Works

FOR J. E. GREINER COMPANY

APPROVED George Jenkins Date 11-10-60

FOR WIEDEMAN AND SINGLETON

APPROVED [signature] Date 11-10-60

CITY OF TAMPA, FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

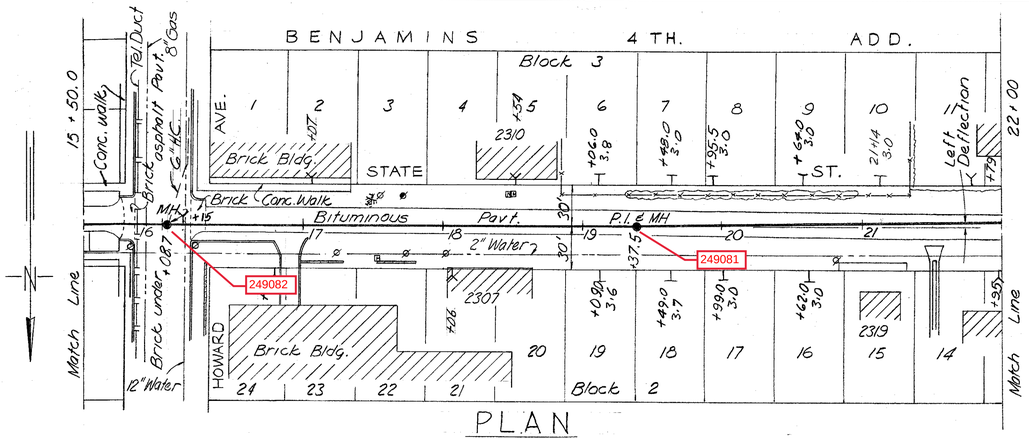
RWT-9
STA. 0+00 TO STA. 14+00

DES. A.S.C.
DR. R.V.J.
CK'D. A.S.C.
DATE SEPT. 1960

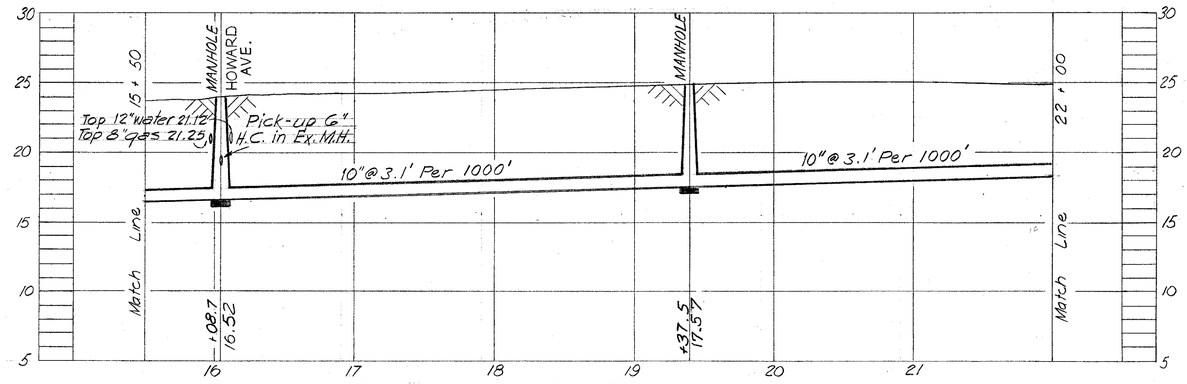
50 0 50 100
1" = 50'

SHEET 1 OF 9

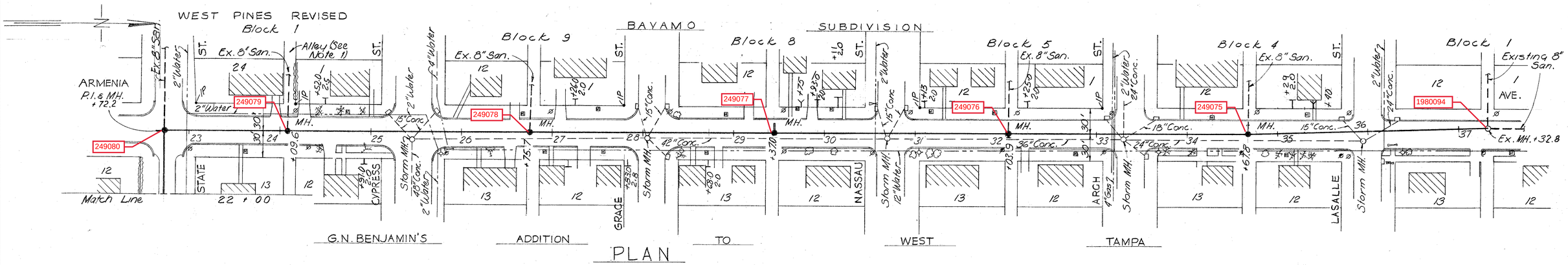
3-1



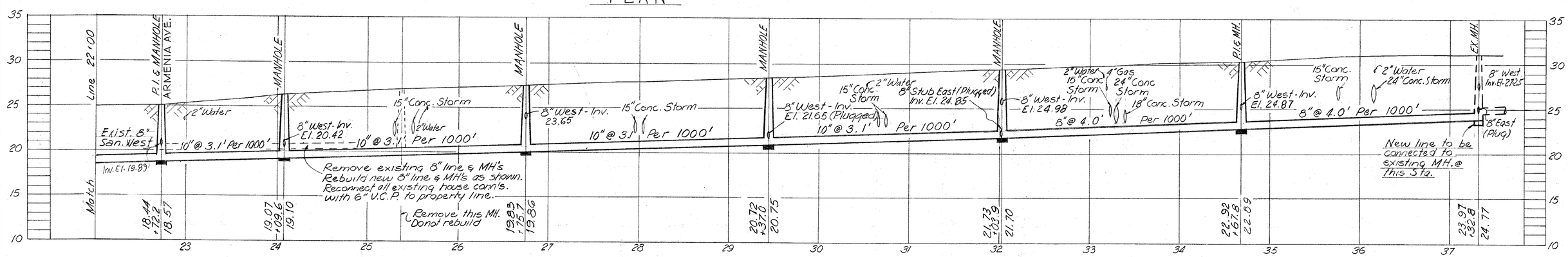
PLAN



PROFILE RWT-9



PLAN



PROFILE RWT-9

NOTE:-
1-All alleys are 14' wide

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of Sept. 1961.
(J.M.R. 9-29-61)

WORK ORDER NO. 1184
R. & R. FORCE ACCOUNT NO. 26

FOR BUREAU OF SANITARY SEWERS
DEPT. OF PUBLIC WORKS

REC'M'D Arthur S. Cooper Jr. Executive Engineer Date 11-7-60
APPROVED Superintendent Date 11-7-60
APPROVED Supt. Dept. of Public Works Date 11-15-60

FOR J. E. GREINER COMPANY
APPROVED Date 11-10-60
FOR THEEMAN AND SINGLETON
APPROVED Date 11-10-60

CITY OF TAMPA, FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

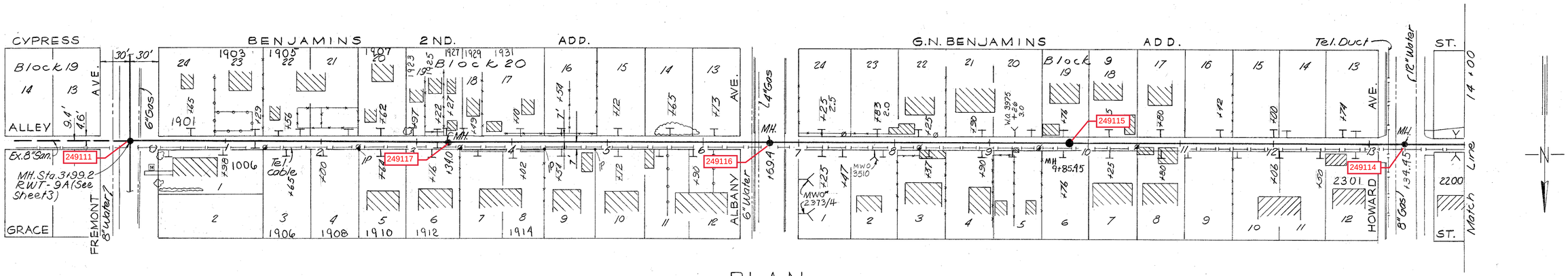
RWT-9
STA. 14+00 TO STA. 37+33.3

DES. A.S.C.
DR. R.V.J.
CKD. A.S.C.
DATE: SEPT. 1960

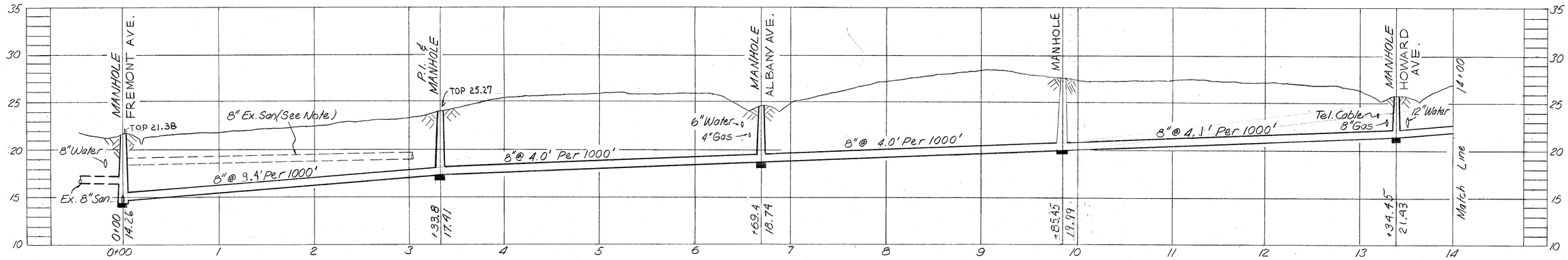
50 0 50 100
1" = 50'

SHEET 2 OF 9

3-2



PLAN



PROFILE — RWT-9A-1

Note:-
Remove 8" Sanitary Sewer pipe & Manholes from Alley. Replace with new line as shown. Reconnect existing house connections using 6" V.C.P. to property line. Install new house connections as required.

AS-BUILT PLAN
REVISED TO SHOW ACTUAL CONDITIONS ACCORDING TO CONSTRUCTION RECORDS AS OF SEPT 1961
(HMK 4-14-71)

WORK ORDER NO. 1184
R. & R. FORCE ACCOUNT NO. 26

FOR BUREAU OF SANITARY SEWERS
DEPT. OF PUBLIC WORKS

REC'M'D William S. Cooper Jr. Date 11-7-60
Executive Engineer

APPROVED [illegible] Date 11-7-60
Superintendent

APPROVED [illegible] Date 11-15-60
Supt. Dept. of Public Works

FOR J. E. GREINER COMPANY

APPROVED George J. Jenkins Date 11-10-60

FOR WIDEMAN AND SINGLETON

APPROVED [illegible] Date 11-10-60

CITY OF TAMPA FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

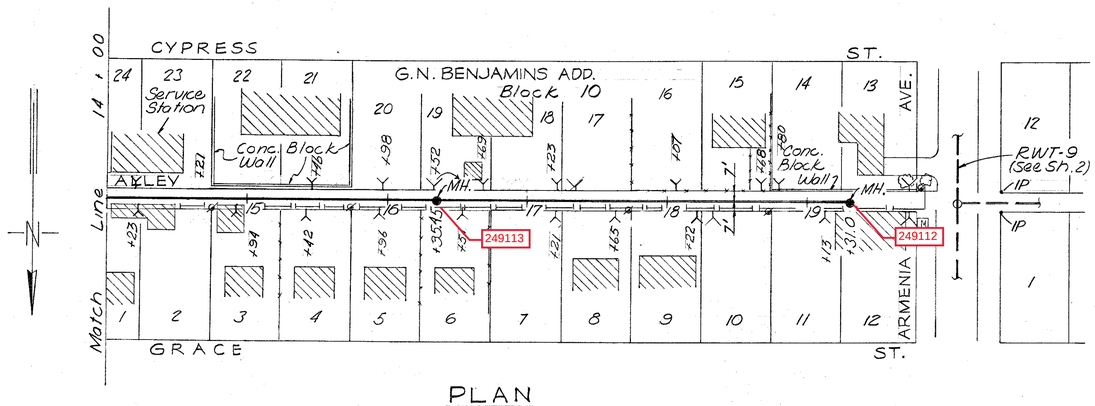
RWT-9A-1
STA. 0+00 TO STA. 14+00

DES. A.S.C.
DR. R.V.J.
CKD. A.S.C.
DATE SEPT., 1960

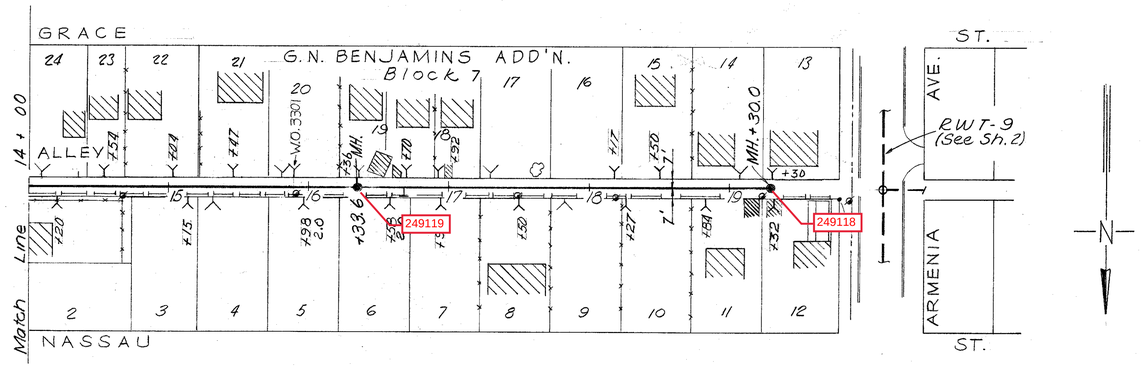
50 0 50 100
1" = 50'

SHEET 5 OF 9

3-5



PLAN



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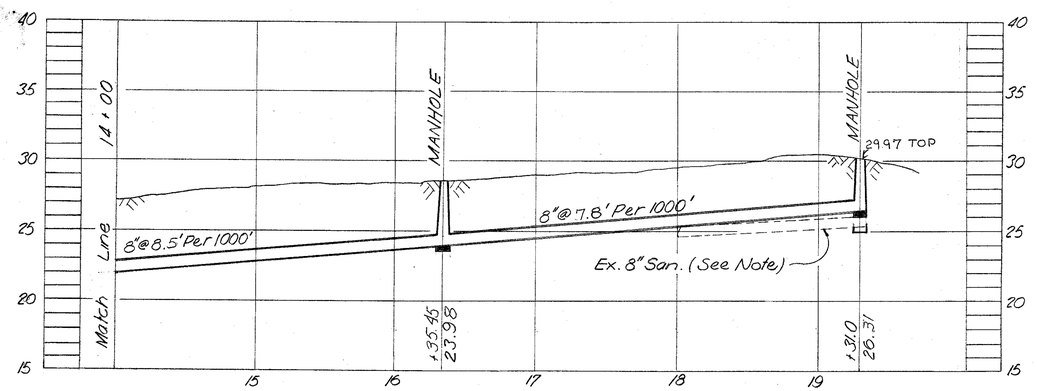
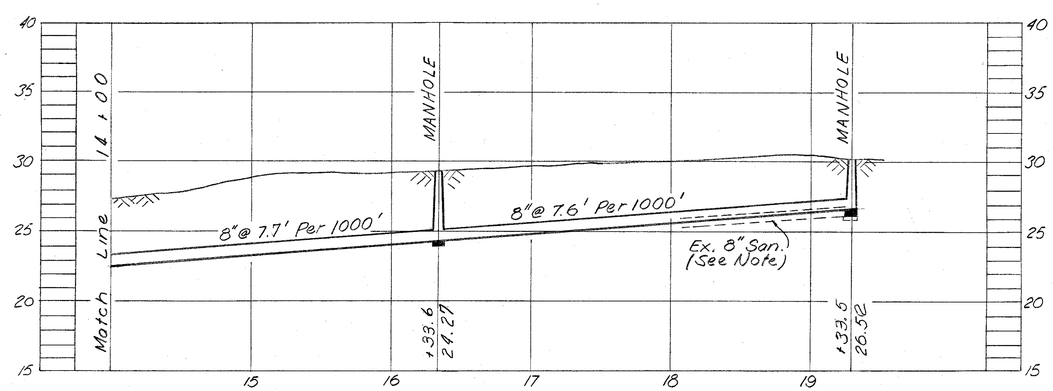


PROFILE — RWT-9A-1



PROFILE — RWT-9A-2

NOTE:-
Remove 8" sanitary sewer pipe & Manholes from Alley. Replace with new line as shown. Reconnect existing house connections using 6" V.C.P. to property line. Install new house connections as required.

AS-BUILT
REVISED TO SHOW ACTUAL CONDITIONS
ACCORDING TO CONSTRUCTION
RECORDS AS OF 3-19-61
(HMK 4-15-71)

WORK ORDER NO. 1184
R. & R. FORCE ACCOUNT NO. 26
FOR BUREAU OF SANITARY SEWERS
DEPT. OF PUBLIC WORKS

REC'M'D Clifton S. Cooper, Jr. Executive Engineer Date 11-7-60
APPROVED Superintendent Date 11-7-60
APPROVED Supt. Dept. of Public Works Date 11-15-60

FOR J. E. GREINER COMPANY
APPROVED Date 11-10-60
FOR WIEDEMAN AND SINGLETON
APPROVED Date 11-10-60

CITY OF TAMPA, FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

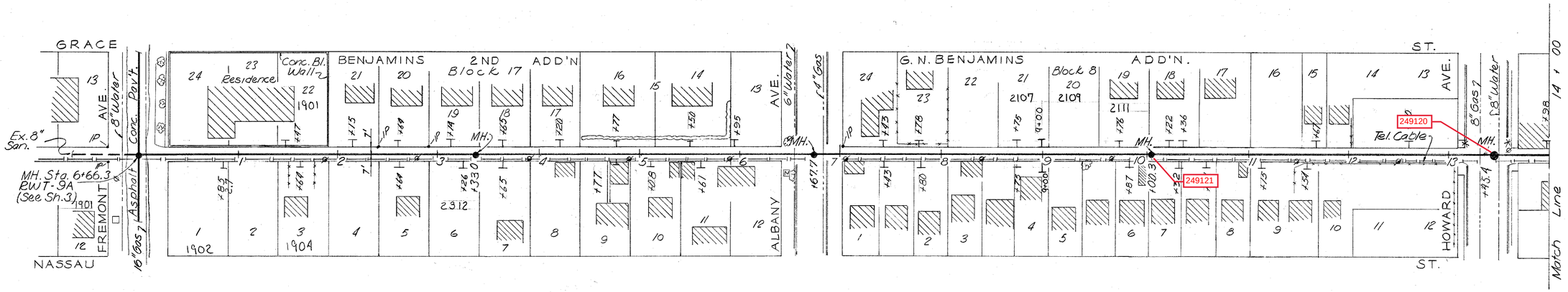
RWT-9A-1, STA. 14+00 TO STA. 19+31.0
RWT-9A-2, STA. 14+00 TO STA. 19+30.0

DES. A.S.C.
DR. R.V.J.
CKD. A.S.C.
DATE SEPT., 1960

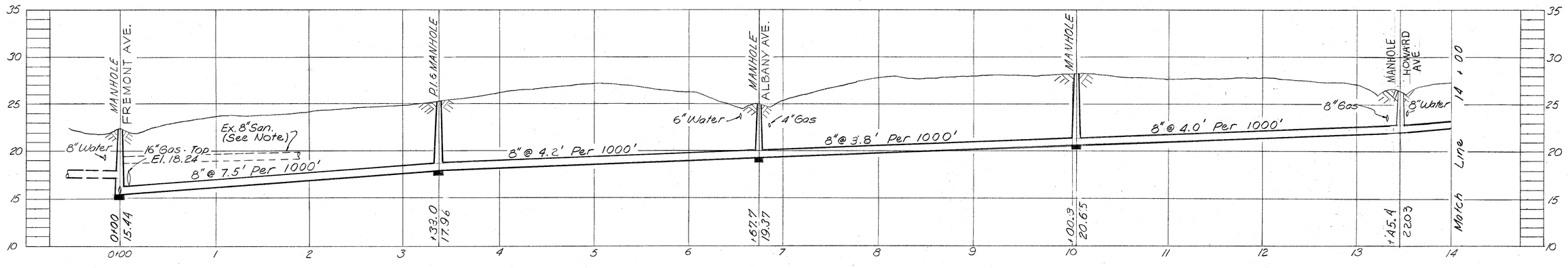
50 0 50 100
1" = 50'

SHEET 6 OF 9

3-6



PLAN



PROFILE—RWT-9A-2

NOTE:-
Remove old pipe & manholes from Alleys. Replace with new line as shown. Reconnect existing house connections with 6" V.C.P. to property line. Install new house connections as required.

AS-BUILT
REVISED TO SHOW ACTUAL CONDITIONS ACCORDING TO CONSTRUCTION RECORDS AS OF 3-19-61
(HMK 4-14-71)

WORK ORDER NO. 1184
R. & R. FORCE ACCOUNT NO. 26

FOR BUREAU OF SANITARY SEWERS
DEPT. OF PUBLIC WORKS

REC'M'D Arthur S. Cooper Jr. Date 11-7-60
Executive Engineer

APPROVED E. J. Southworth Date 11-7-60
Superintendent

APPROVED Roy R. Van Lamp Date 11-15-60
Supt. Dept. of Public Works

FOR J. E. GREINER COMPANY

APPROVED George S. Jenkins Date 11-10-60

FOR WIEDEMAN AND SINGLETON

APPROVED T. Wiedeman Date 11-10-60

CITY OF TAMPA, FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

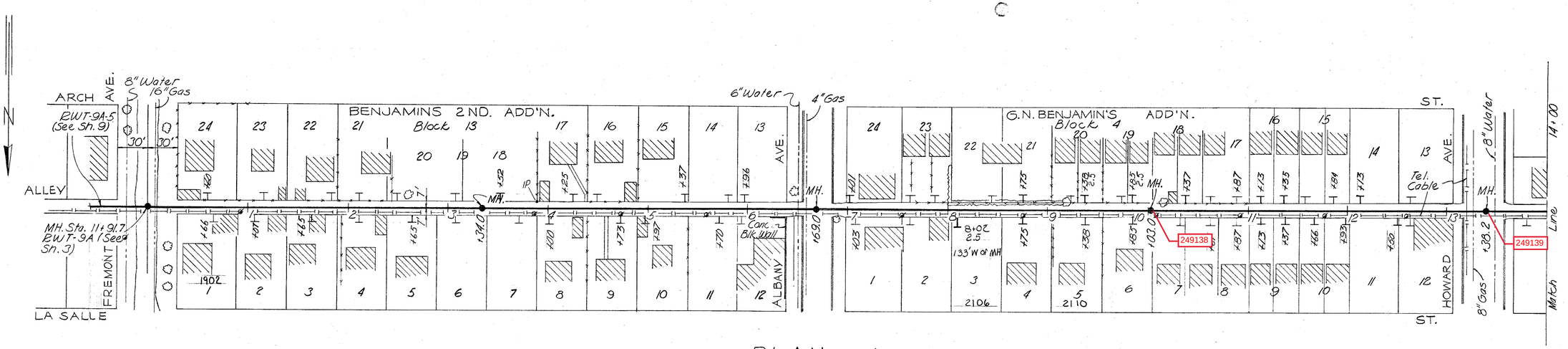
RWT-9A-2
STA. 0+00 TO STA. 14+00

DES. A.S.C.
DR. R.V.J.
CKD. A.S.C.
DATE SEPT., 1960

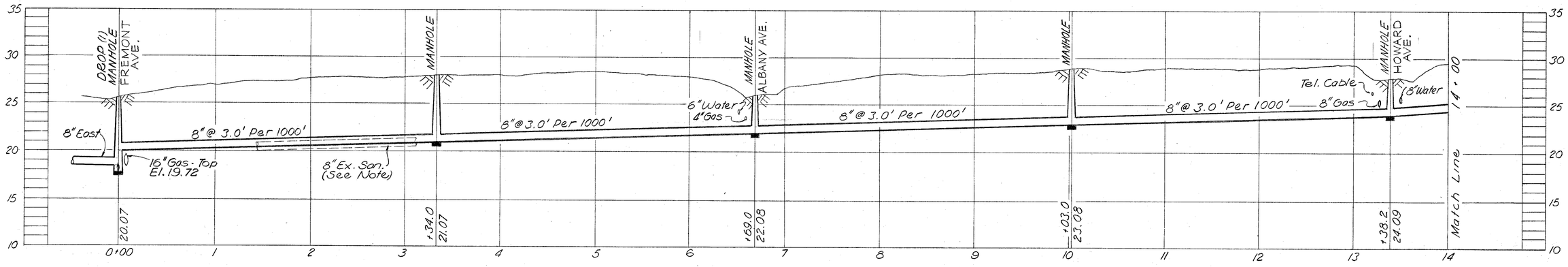
50 0 50 100
1" = 50'

SHEET 7 OF 9

3-7



PLAN



PROFILE — RWT-9A-4

NOTE:-
Remove 8" Sanitary Sewer Pipe & Manholes from alley. Replace with new line as shown. Reconnect existing house connections using 6" V.C.P. to property line. Install new house connections as required.

WO-1184

WORK ORDER NO. 1184
R. & R. FORCE ACCOUNT NO. 26

FOR BUREAU OF SANITARY SEWERS
DEPT. OF PUBLIC WORKS

REC'M'D Arthur S. Cooper Jr. Date 11-7-60
Executive Engineer

APPROVED [signature] Date 11-7-60
Superintendent

APPROVED [signature] Date 11-15-60
Supt. Dept. of Public Works

FOR J. E. GREINER COMPANY

APPROVED George L. Jackson Date 11-10-60

FOR WIEDEMAN AND SINGLETON

APPROVED [signature] Date 11-10-60

CITY OF TAMPA, FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

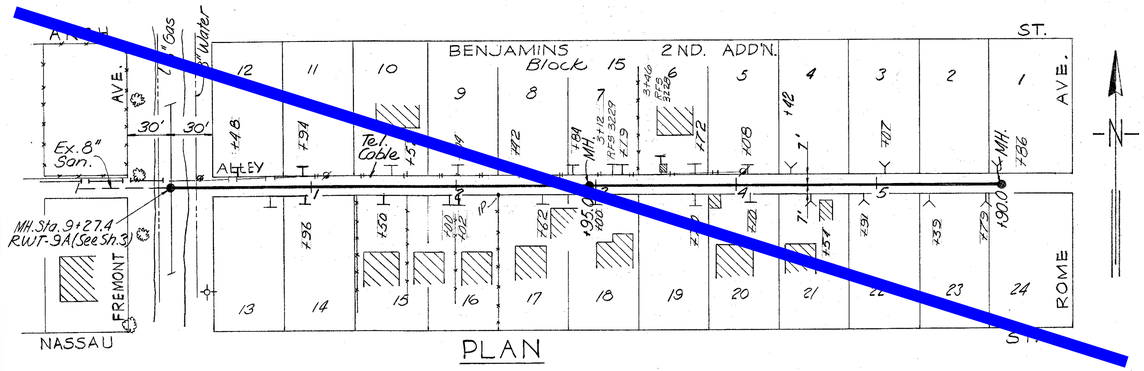
RWT-9A-4
STA. 0+00 TO STA. 14+00

DES. A.S.C.
DR. R.V.J.
CKD. A.S.C.
DATE SEPT., 1960

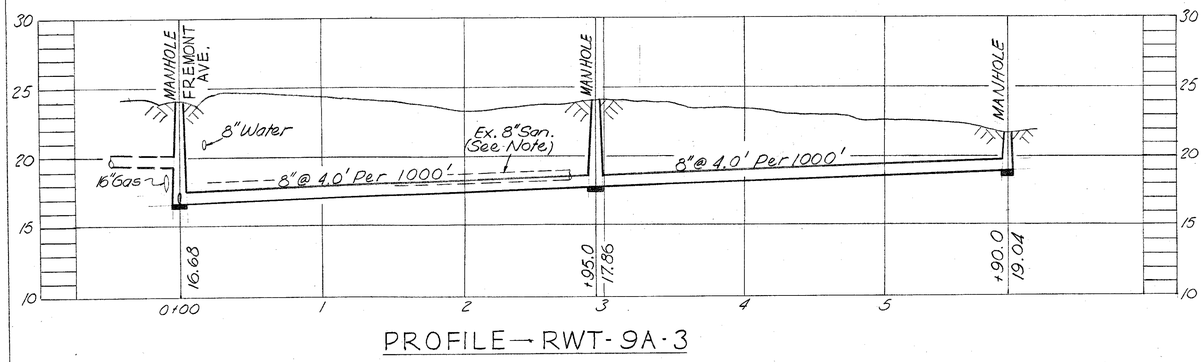
50 0 50 100
1" = 50'

SHEET 8 OF 9

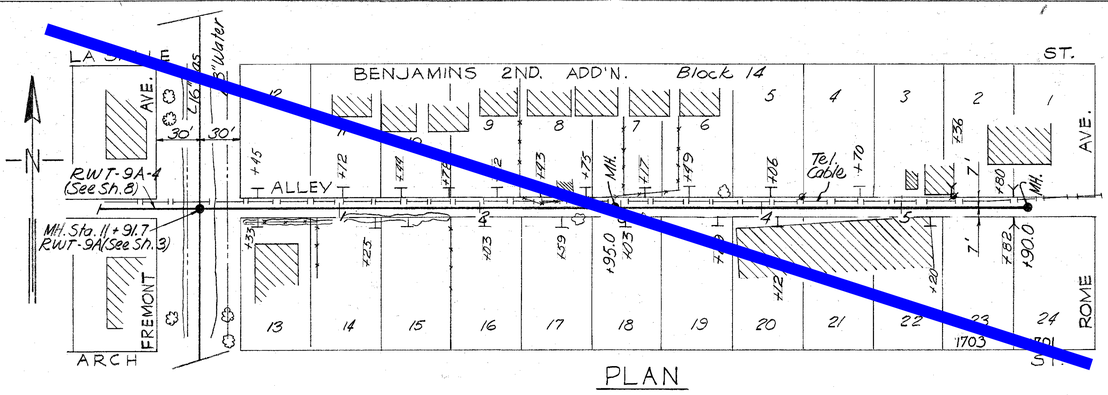
3-8



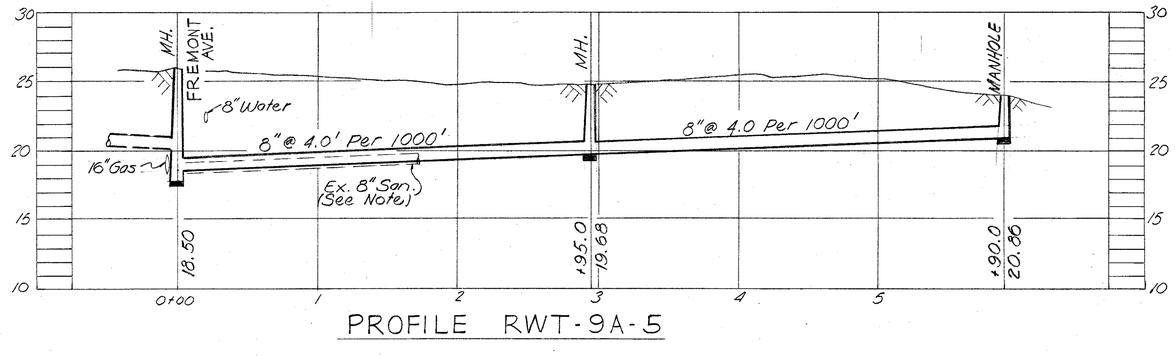
PLAN



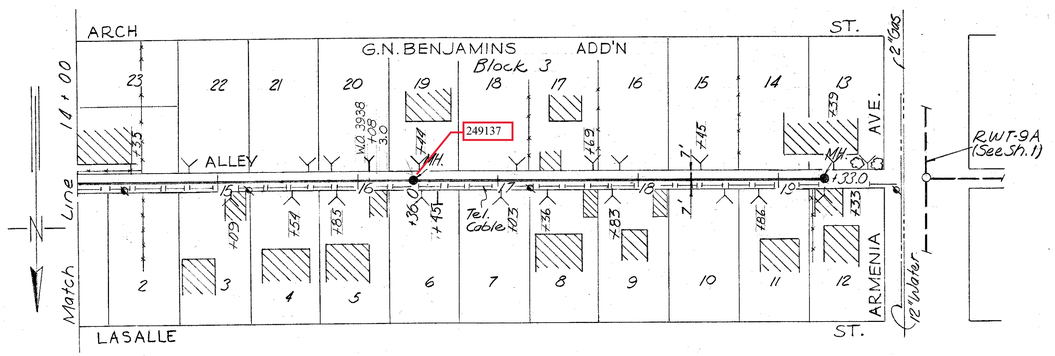
PROFILE — RWT-9A-3



PLAN

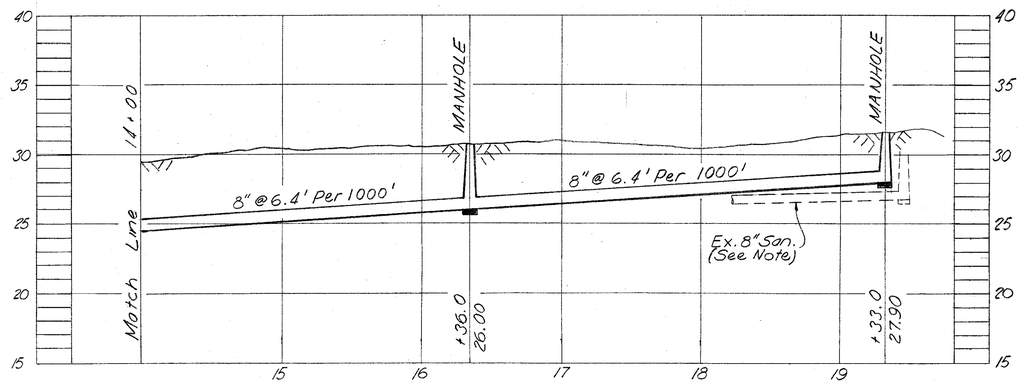


PROFILE RWT-9A-5



PLAN

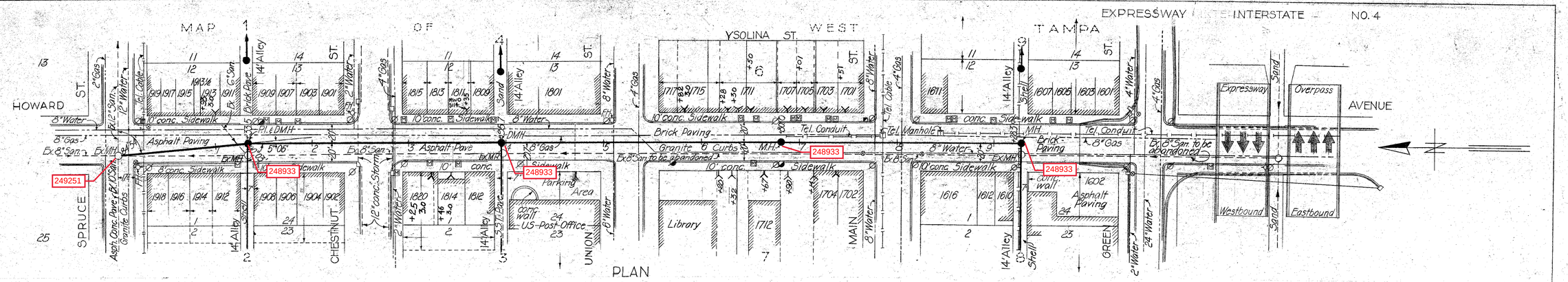
NOTE:-
Remove 8" Sewer pipe and Manholes from Alley. Replace with new line as shown. Reconnect existing house connections using 6" V.C.P. to property line. Install new house connections as required.

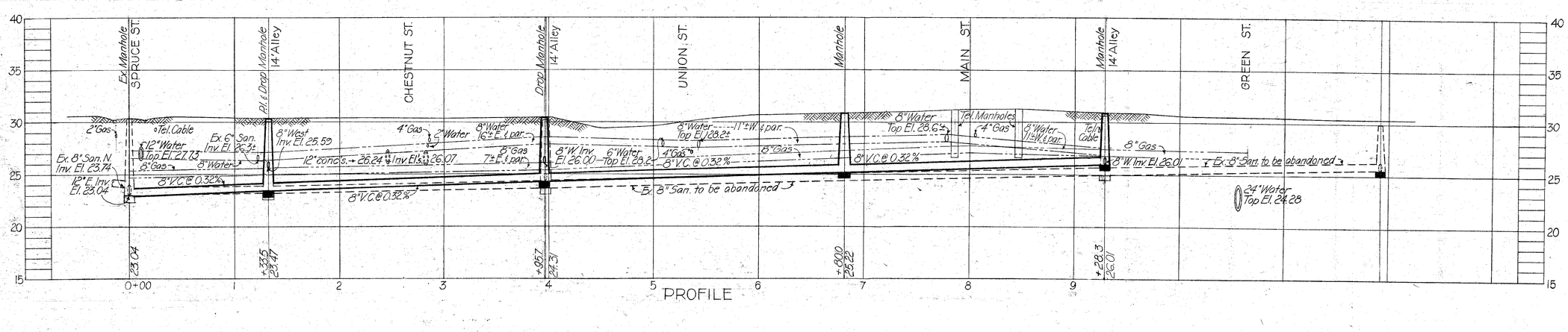


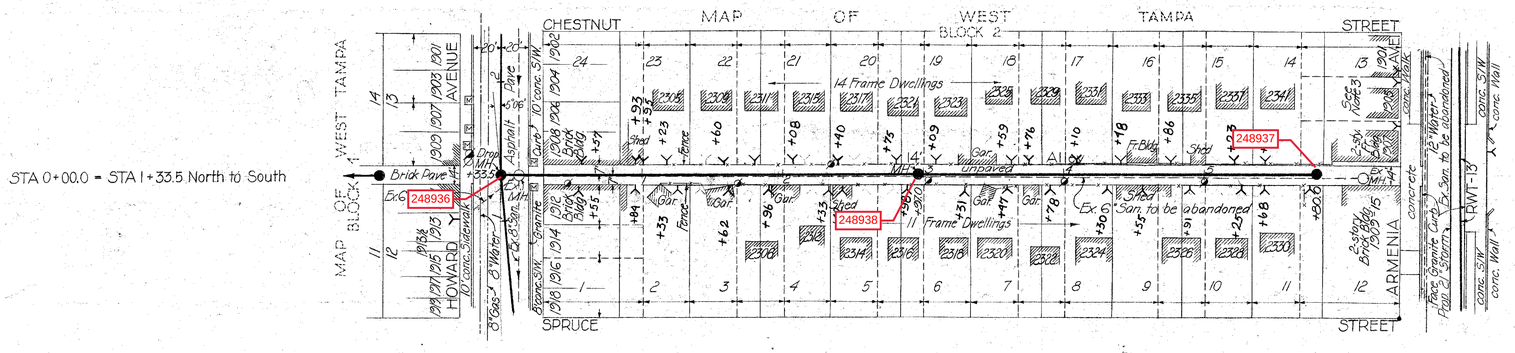
PROFILE — RWT-9A-4

WORK ORDER NO. 1184 R. & R. FORCE ACCOUNT NO. 26	CITY OF TAMPA, FLORIDA RENEWAL AND REPLACEMENT FUND
FOR BUREAU OF SANITARY SEWERS DEPT. OF PUBLIC WORKS	SEWER IMPROVEMENTS
REC'M'D. Arthur S. Cooper Jr. Date 11-7-60 Executive Engineer	RWT-9A-3 & RWT-9A-5 RWT-9A-4 STA. 14+00 TO STA. 19+33.0
APPROVED [illegible] Date 11-7-60 Superintendent	
APPROVED [illegible] Date 11-15-60 Supt. Dept. of Public Works	
FOR J. E. GREINER COMPANY APPROVED George S. Jenkins Date 11-10-60	
FOR WIEDEMAN AND SINGLETON APPROVED [illegible] Date 11-10-60	DES. A.S.C. DR. R.V.J. CK'D. A.S.C. DATE SEPT., 1960 50 0 50 100 1" = 50'
	SHEET 9 OF 9

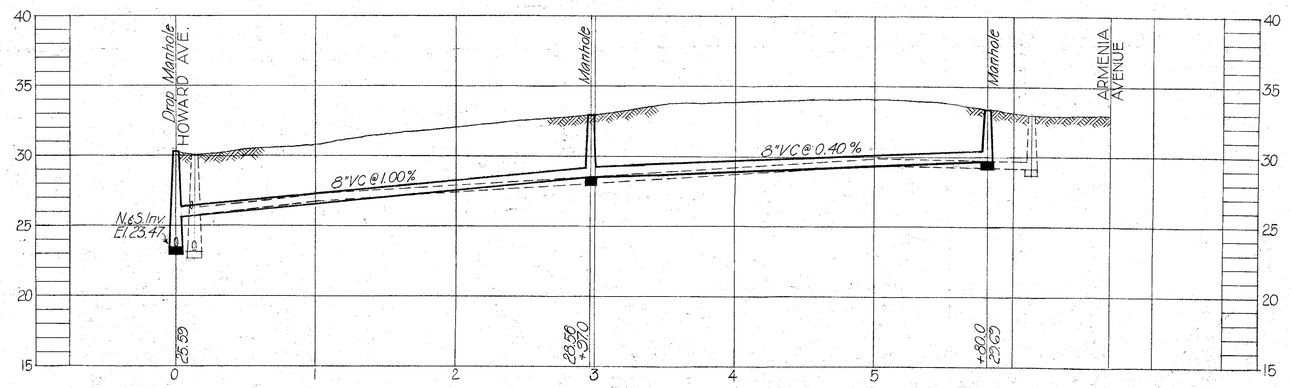
3-9







STA 0+00.0 = STA 1+33.5 North to South



Notes:
1) ------- Property lines as indicated by Hillsborough County Tax Records.
2) Reference Elevation: Temporary Benchmark. Nail in power pole @ SE corner of Howard Ave. and Spruce St. Elev. 30.551
3) Y indicates 8"×6" wye @ main sewer with 6" house connection to ℄

HSE. CONNS. FROM DAILY REPORTS

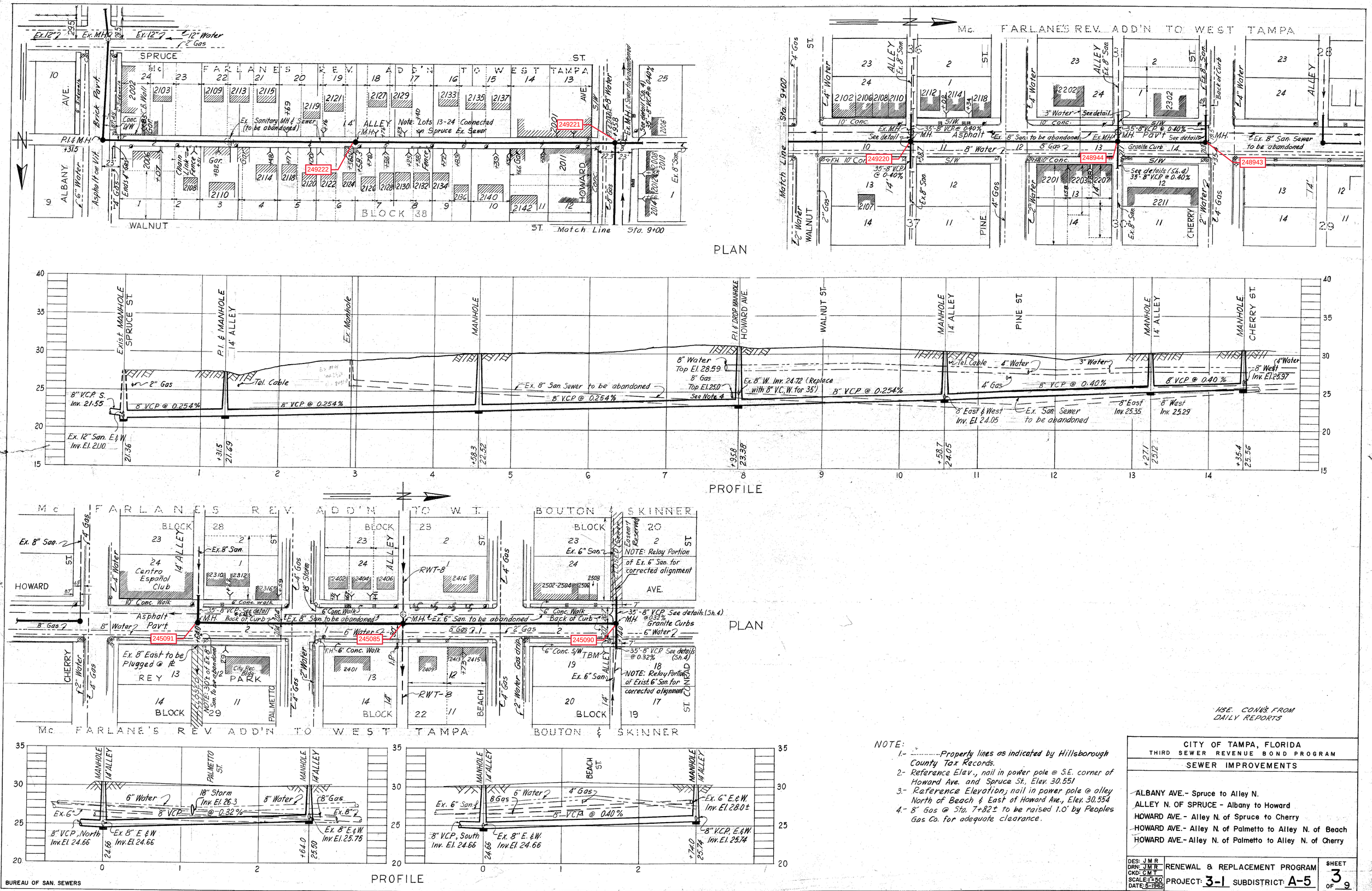
BUREAU OF SAN. SEWERS

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

HOWARD - Spruce to Alley N. of Green
ALLEY N. OF CHESTNUT - Howard to Armenia

DES: CMT DRN: H.K. CKD: CMT SCALE: 1"=50' DATE: 5-1962	RENEWAL & REPLACEMENT PROGRAM PROJECT: 3-1 SUBDISTRICT: A-5	SHEET: 2 OF 9

7-2



HSE. CONN'S. FROM DAILY REPORTS

NOTE:

1.- ---------- Property lines as indicated by Hillsborough County Tax Records.
2.- Reference Elev., nail in power pole @ S.E. corner of Howard Ave. and Spruce St., Elev. 30.551
3.- Reference Elevation; nail in power pole @ alley North of Beach & East of Howard Ave., Elev. 30.554
4.- 8" Gas @ Sta. 7+82± to be raised 1.0' by Peoples Gas Co. for adequate clearance.

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

ALBANY AVE.- Spruce to Alley N.
ALLEY N. OF SPRUCE - Albany to Howard
HOWARD AVE.- Alley N. of Spruce to Cherry
HOWARD AVE.- Alley N. of Palmetto to Alley N. of Beach
HOWARD AVE.- Alley N. of Palmetto to Alley N. of Cherry

DES: J M R
DRN: J M R
CKD: C M T
SCALE: 1"=50'
DATE: 5-1962

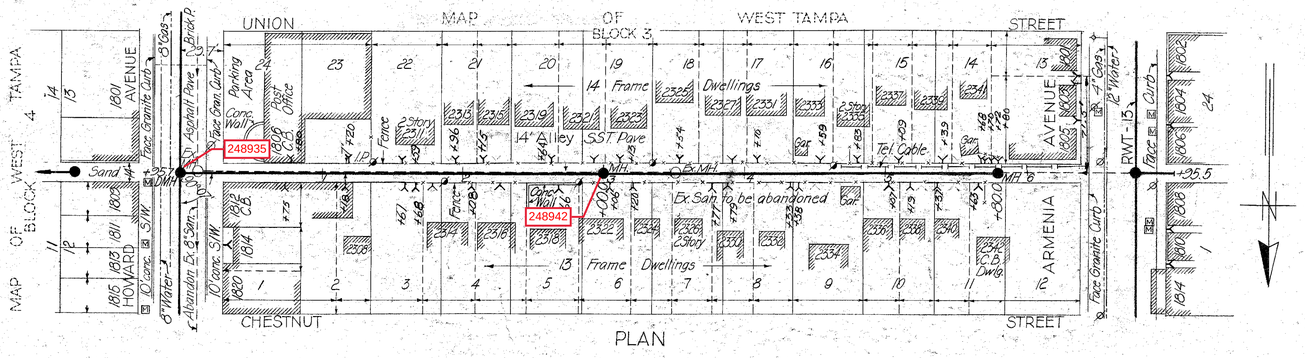
RENEWAL & REPLACEMENT PROGRAM
PROJECT: 3-1 SUBDISTRICT: A-5

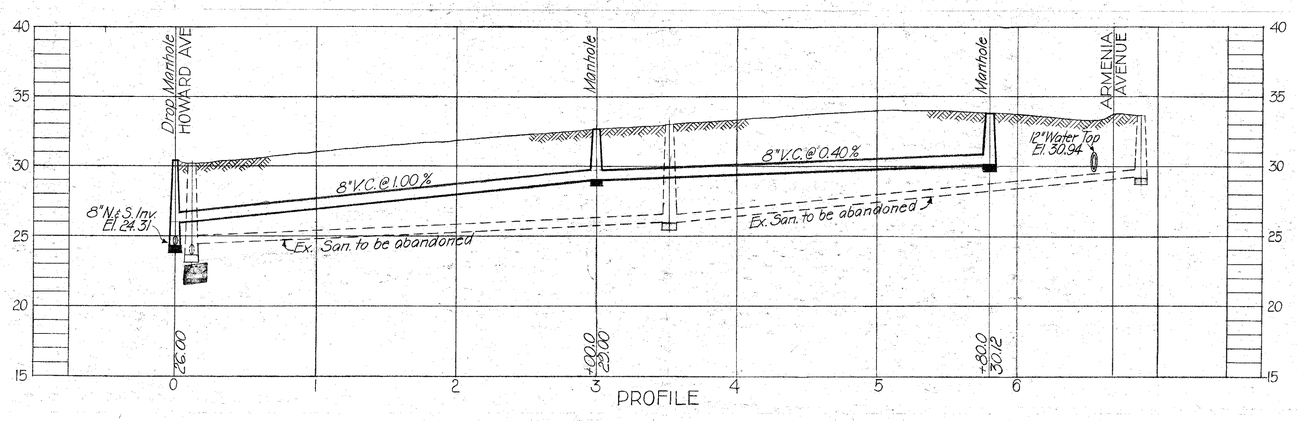
SHEET 3 OF 9

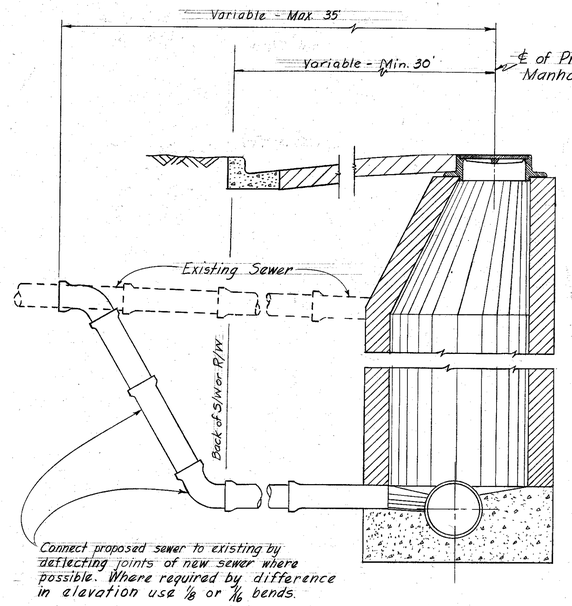
BUREAU OF SAN. SEWERS

7-3

STA 0+00.0 =
STA 3+95.7 North to South

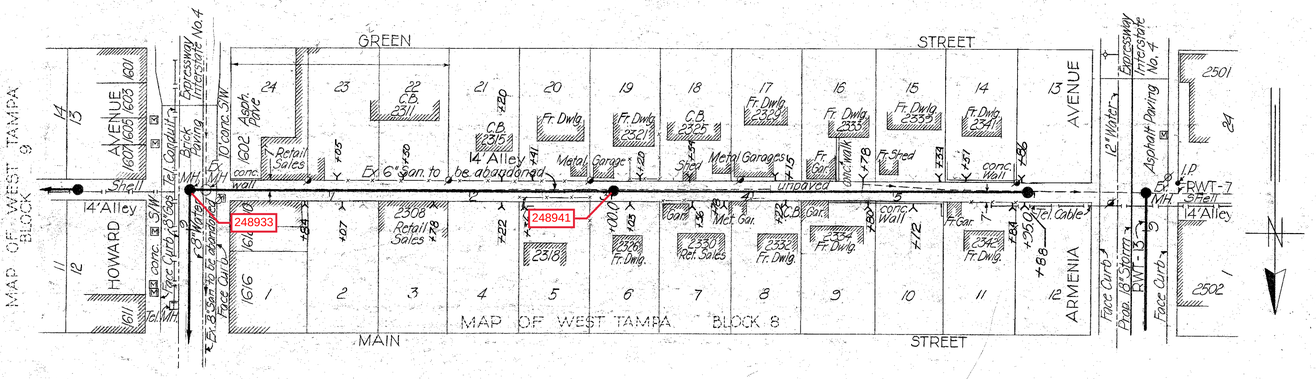


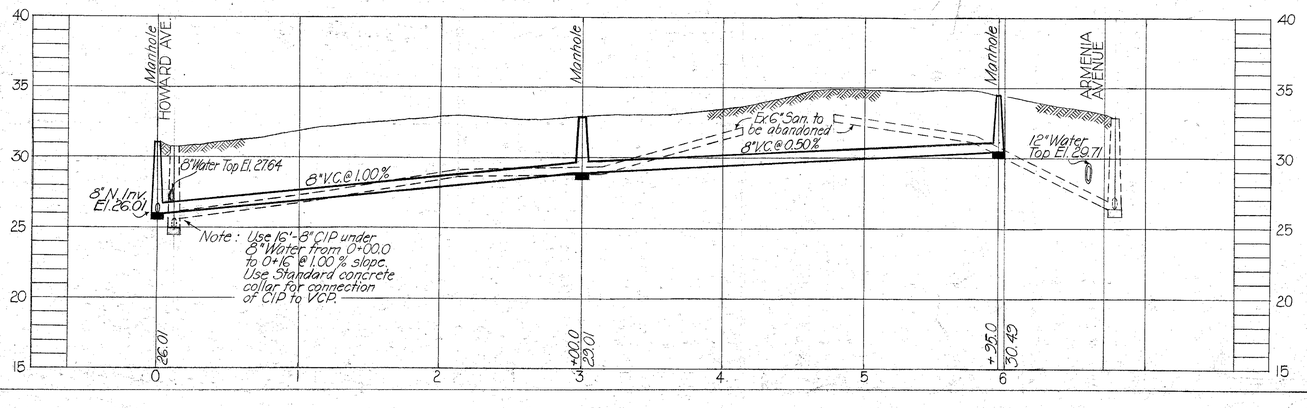




TEMPORARY
CONNECTION OF PROPOSED TO EXISTING SEWERS
Scale: 1/2" = 1'-0"

STA 0+00.0 =
STA 9+28.3 North to South





USE CONN'S. FROM DAILY REPORTS

Notes:
1) ----- Property lines as indicated by Hillsborough County Tax Records.
2) Reference Elevation - Temporary Benchmark Nail in Power Pole @ NW Corner of Armenia Avenue and alley north of Main Street; Elevation 34.61
3.) Y indicates 8"by 6" wye @ main sewer with 6" house connection to ℄.

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

ALLEY N. OF UNION - Howard to Armenia
ALLEY N. OF GREEN - Howard to Armenia
TEMPORARY CONNECTION OF PROPOSED TO EXISTING SEWERS

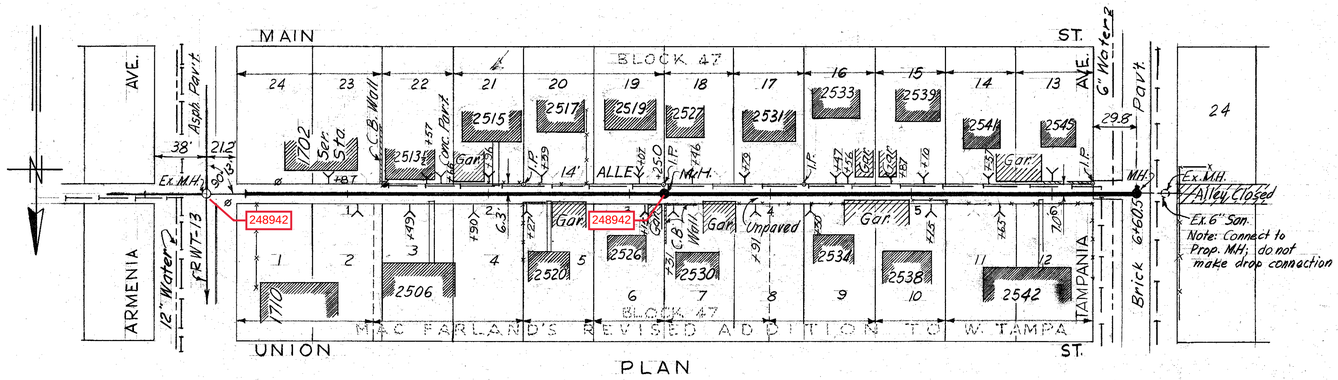
DES: C.M.T.
DRN: H.K.
CKD: C.M.T.
SCALE: 1"=50
DATE: 5-1962

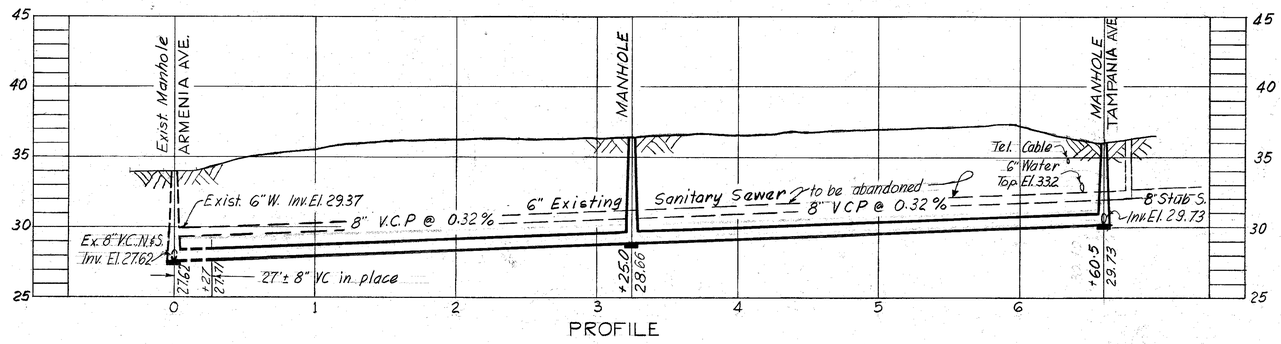
RENEWAL & REPLACEMENT PROGRAM
PROJECT: 3-1 SUBDISTRICT: A-5

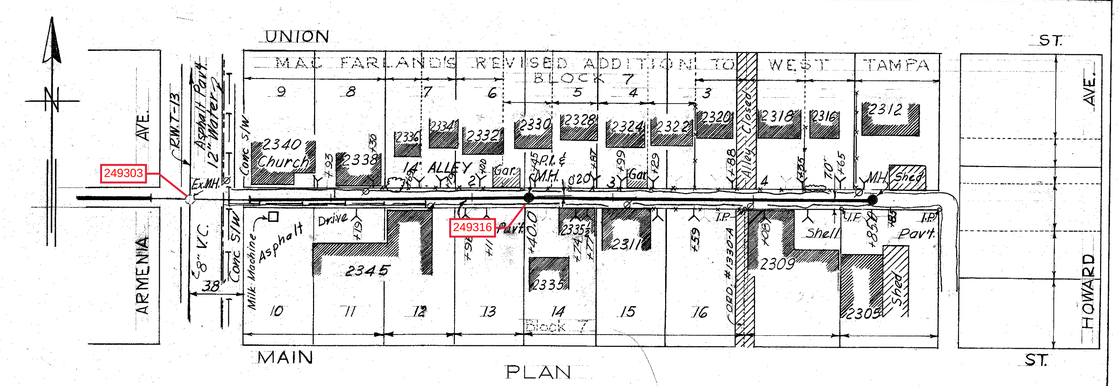
SHEET: 4 OF 9

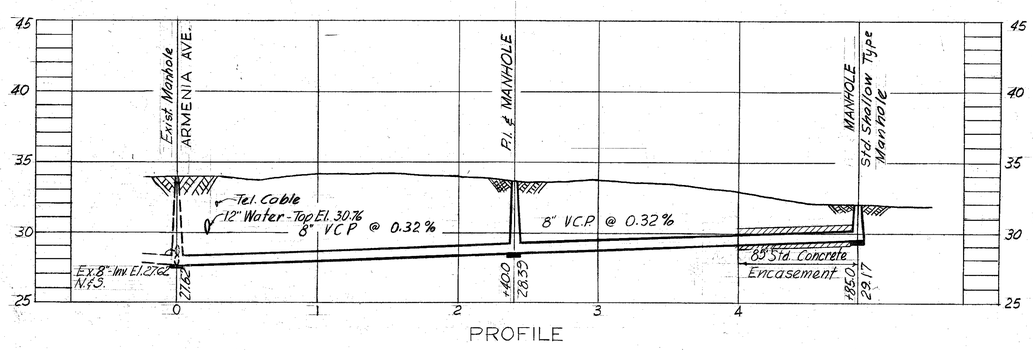
BUREAU OF SAN. SEWERS

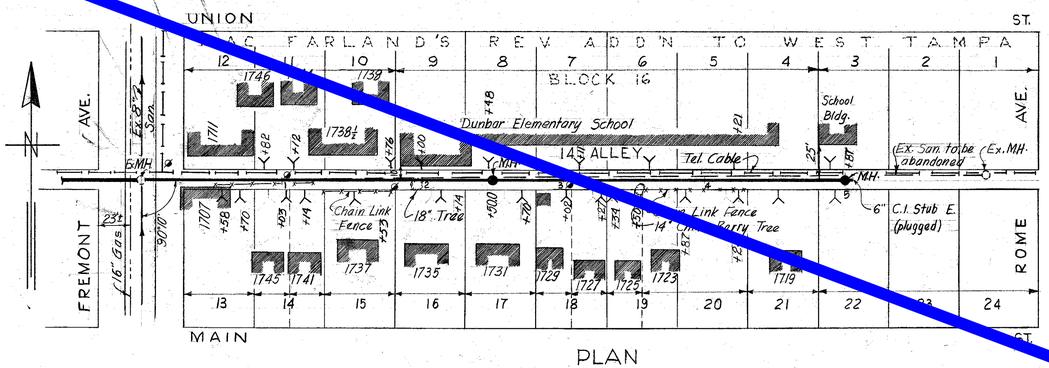
7-4

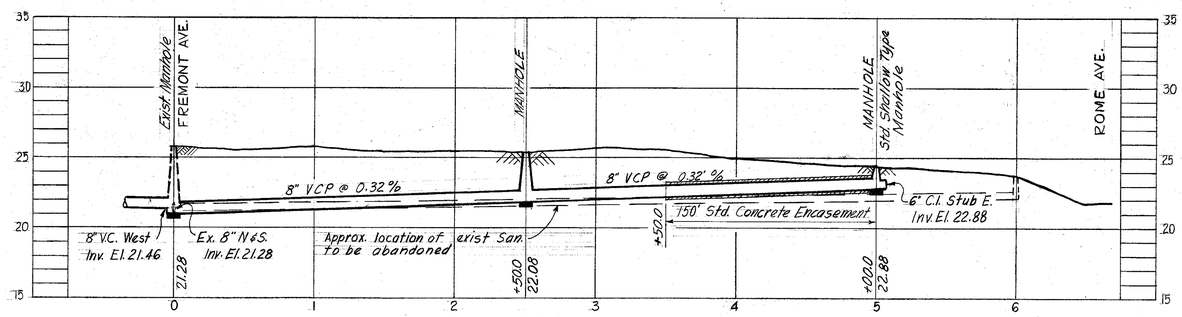












H.S.E. CONN'S. FROM DAILY REPORTS

NOTES:

1. ·····Property lines as indicated by Hillsborough County Tax Records.
2. Reference Elevations:
   a) Nail in power pole @ N.W. corner of Armenia & Alley N. of Main, Elev. 34.611
   b) Sidewalk @ N.E. corner Albany & Green. (Office check unavailable) Elev. 28.562

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM

SEWER IMPROVEMENTS

ALLEY N. OF MAIN - Armenia to Tampania
ALLEY N. OF MAIN - Armenia E.
ALLEY N. OF MAIN - Fremont E.

DES: C.M.T. DRN: J.M.R. CKD: C.M.T. SCALE: 1"=50 DATE: 5-1962	RENEWAL & REPLACEMENT PROGRAM PROJECT: 3-1 SUBDISTRICT: A-5	SHEET: 5 OF 9

BUREAU OF SAN. SEWERS

7-5

Note: See Profile "A" below

Equation: (See Sheet # 9) Sta 0+00.0 along Tampania = Sta 1++4.0 along 15' Alley north of J.F. Kennedy Blvd.

Note: The plugged Stub South Inv. El. 15.46 @ Mh. Sta 0+80.0 on Tampania north of North "A" would not allow for the least possible rate of slope (0.32%) for Storm Clearance @ Intersection

Plug exist. 10" sewer in manhole after completion of all sewer and the West Tampa Ejector Station

Ex. 12" VCP

Ex. 10" Conc. San Sewer to be abandoned

NORTH "A" ST.

MOODY HEIGHTS BLK. 1

TERRACE BLK 6

NOVA BLK 5

(RE VISED) BLK 4

EXCELDA SUB. BLK 4

15' Alley

Equation: Sta 0+00.0 N. = Sta 1+94.6 from South (R.W.T 10)

250175

250191

Exist. 8" VCP

Exist. 6" Water

Tel. Cable

Gas

Wire Fence

Hedge

Shell Pav't

Cyclone Fence

Ex. 4" San.

Ex. 8" VCP

Exist. 8" VCP

NORTH "B"

BLK. 4 MIDWAY

ARMENIA AVE.

TAMPANIA AVE.

ARAWANA AVE.

HABANA AVE.

Ex. Mh.

Ex. 10" Conc. San. Sewer to be abandoned

6" Wye Plugged C.I.O.

15.52 ± G.V.C.P. @ Min. (.00%)

Ex. 12" Conc.

Ex. 6" Water

Ex. 8" Water

Ex. 8" Force Main

Ex. 4" Force Main

Ex. 6" Force Main

Ex. 12" Force Main

Ex. 16" Force Main

Ex. 20" Force Main

Ex. 24" Force Main

Ex. 30" Force Main

Ex. 36" Force Main

Ex. 42" Force Main

Ex. 48" Force Main

Ex. 54" Force Main

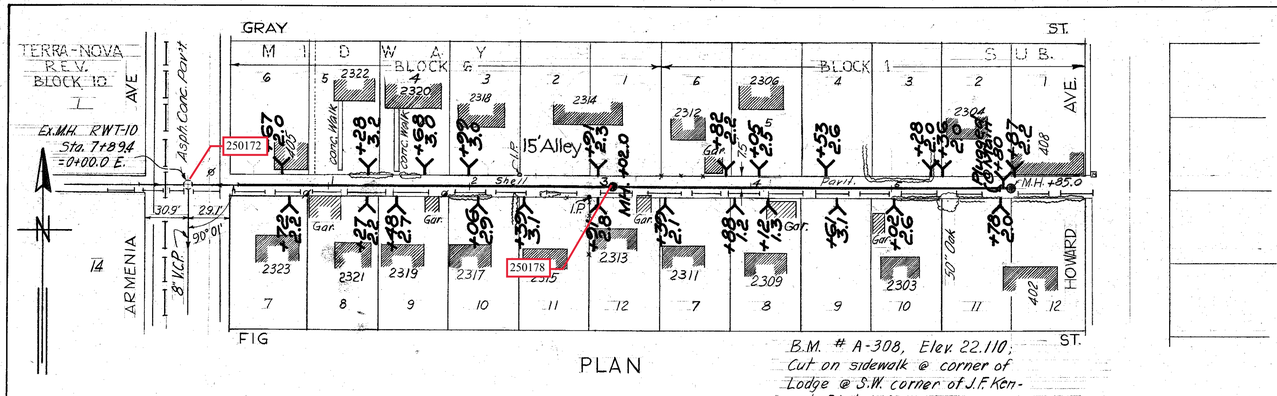
Ex. 60" Force Main

Ex. 66" Force Main

Ex. 72" Force Main

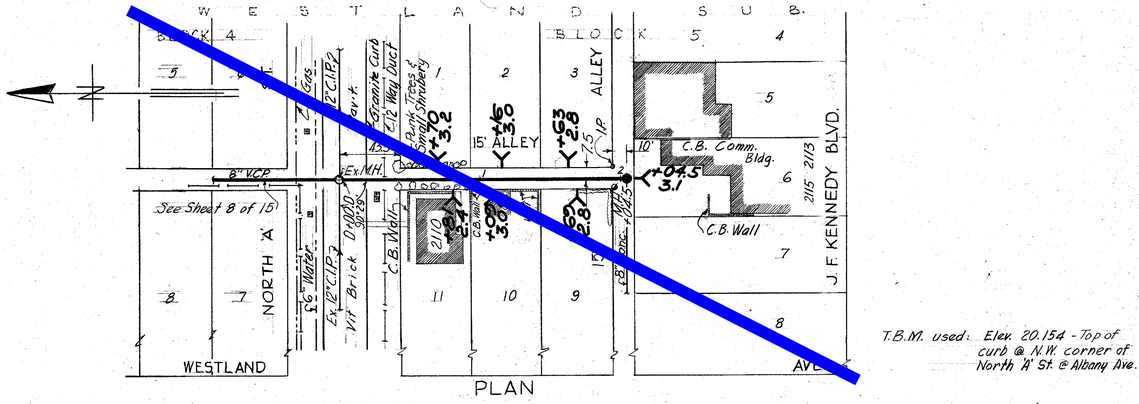
Ex. 78" Force Main

Ex.



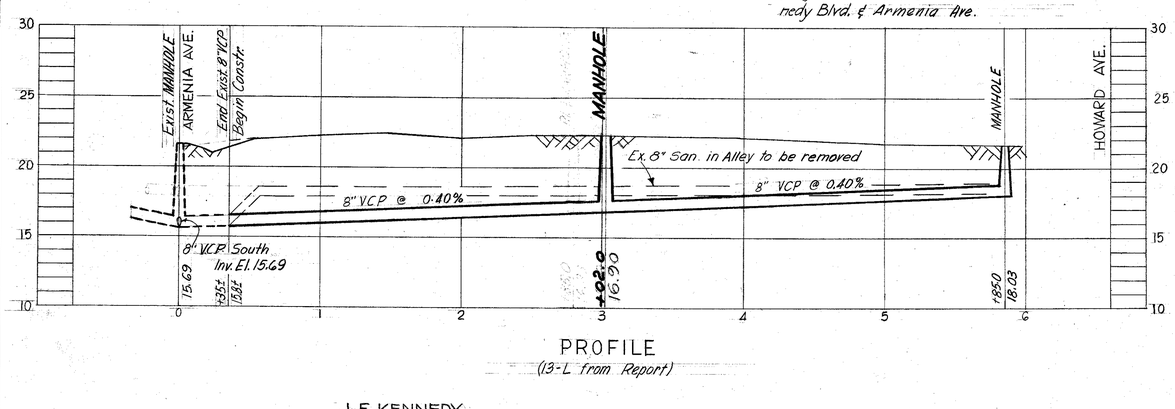
PLAN

B.M. # A-308, Elev. 22.110; Cut on sidewalk @ corner of Lodge @ S.W. corner of J.F. Kennedy Blvd. & Armenia Ave.



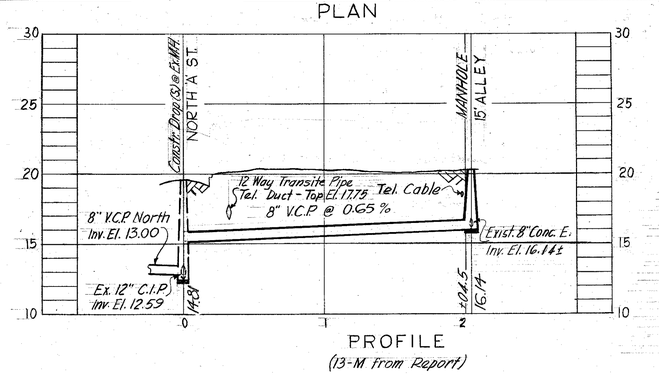
PLAN

T.B.M. used: Elev. 20.154 - Top of curb @ N.W. corner of North 'A' St. @ Albany Ave.



PROFILE

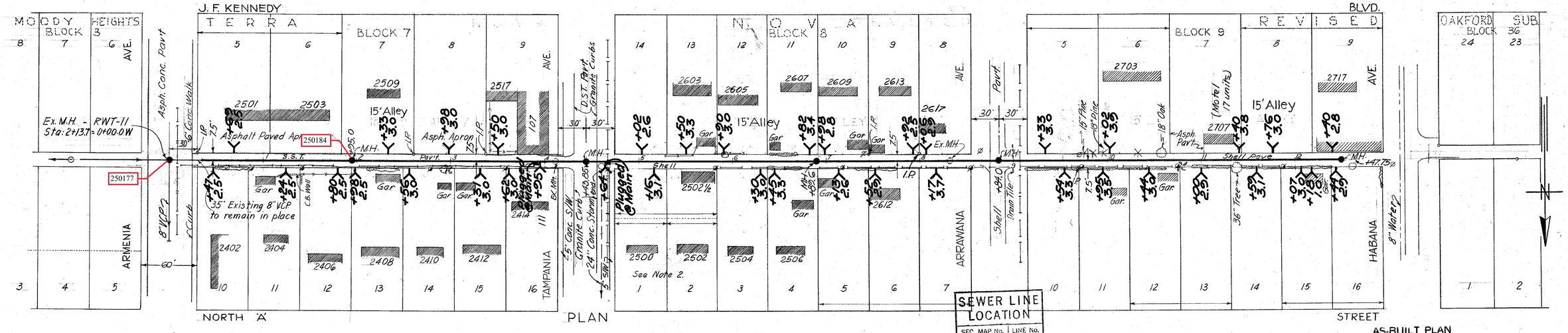
(13-L from Report)



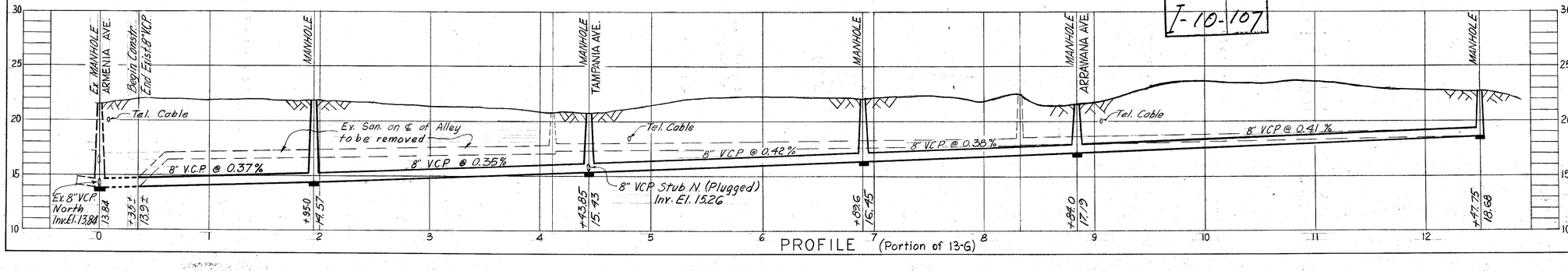
PROFILE

(13-M From Report)

Notes:
1, ... property lines as indicated by Hillsborough County Tax Records.
2, Houses Nos: 2500 & 2502 are to remain connected to 10" Sanitary on North 'A' St. until such time it becomes impractical to sewer from this line.



PLAN



PROFILE (Portion of 13-G)

SEWER LINE LOCATION

SEC. MAP No.	LINE No.
I-10	107

AS-BUILT PLAN
REVISED TO SHOW ACTUAL CONDITIONS ACCORDING TO CONSTRUCTION RECORDS AS OF 6-18-69 PER HK

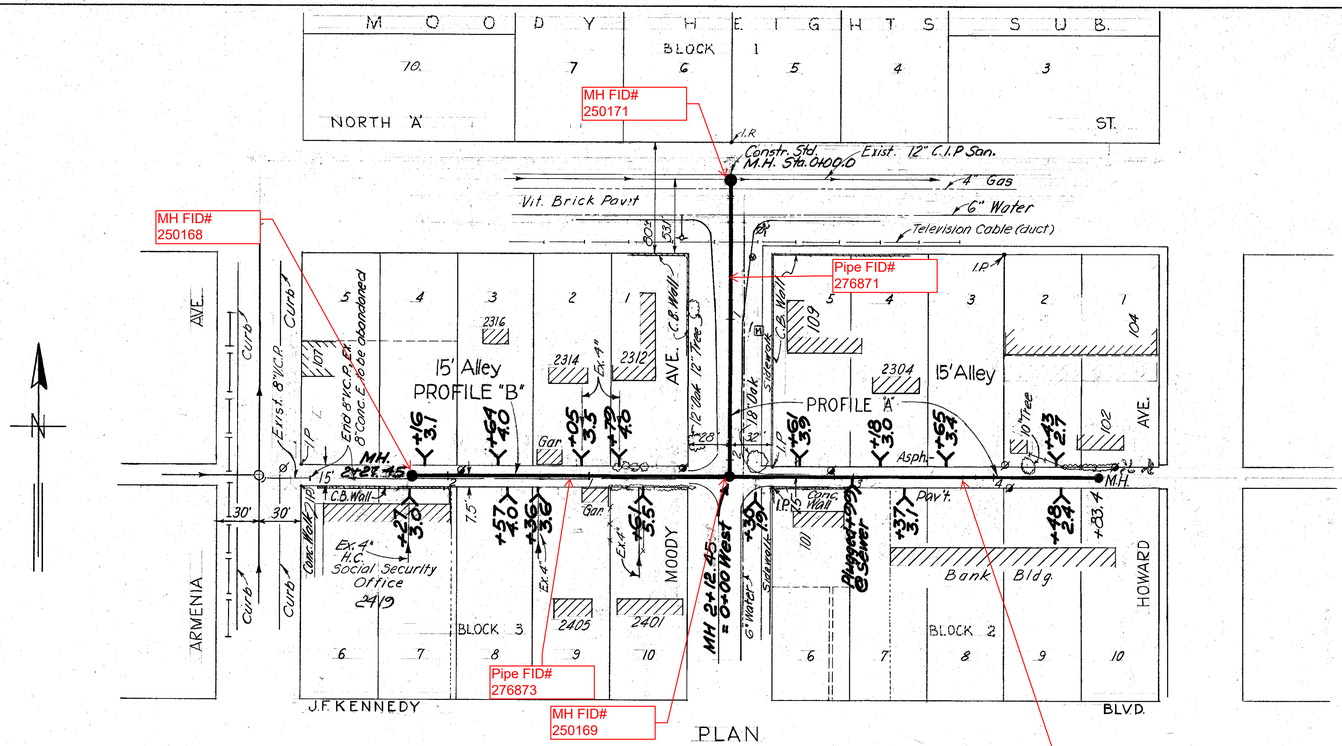
W.O. 1901

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

ALLEY N. of Fig St. – Armenia Ave. to Howard Ave.
ALLEY E. of Westland Ave. – North "A" St. to Alley South
ALLEY N. of J.F. Kennedy Blvd. – Armenia Ave. to Habana Ave.

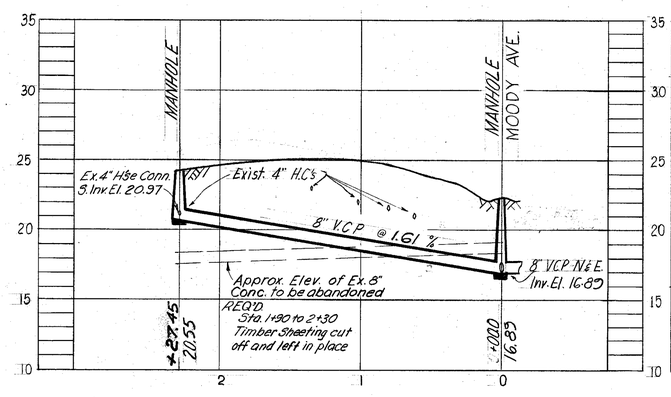
DES: JMR DRN: JMR CKD: CMT SCALE: 1" = 50 DATE: Dec 63	RENEWAL & REPLACEMENT PROGRAM PROJECT: 3-2 SUBDISTRICT: A-4	SHEET: 9 OF 15

7-18

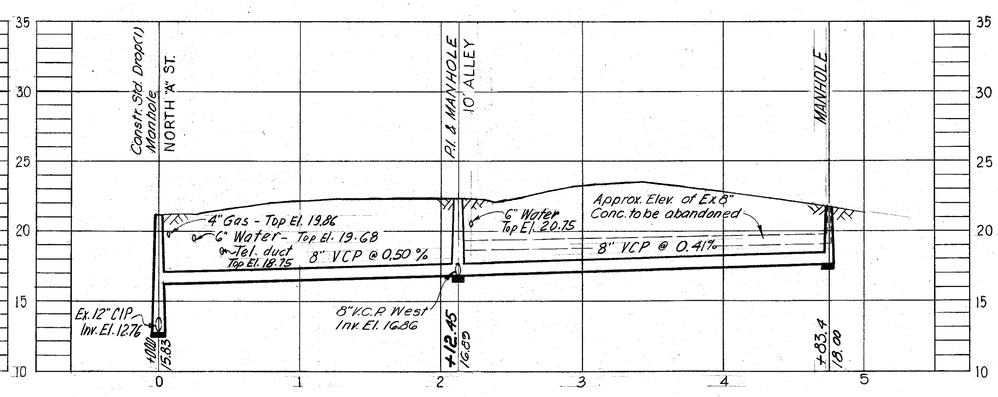


PLAN

(Portion of Item 13 G, Table 16)



PROFILE "B"



PROFILE "A"

NOTE:

B.M. used: A-293, Elev. 22.569 (⊕) cut on S.E. corn., 1st step to duplex house #2405-2405½, N. side of J. F. Kennedy Blvd. & 112' W. of Moody Ave.

AS-BUILT PLAN
REVISED TO SHOW ACTUAL CONDITIONS ACCORDING TO CONSTRUCTION RECORDS
AS OF 6-25-64 PER HK

W.O. 1901

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM

SEWER IMPROVEMENTS

MOODY AVE. &
ALLEY N. of J.F. Kennedy Blvd. – Armenia Ave. to Howard Ave.

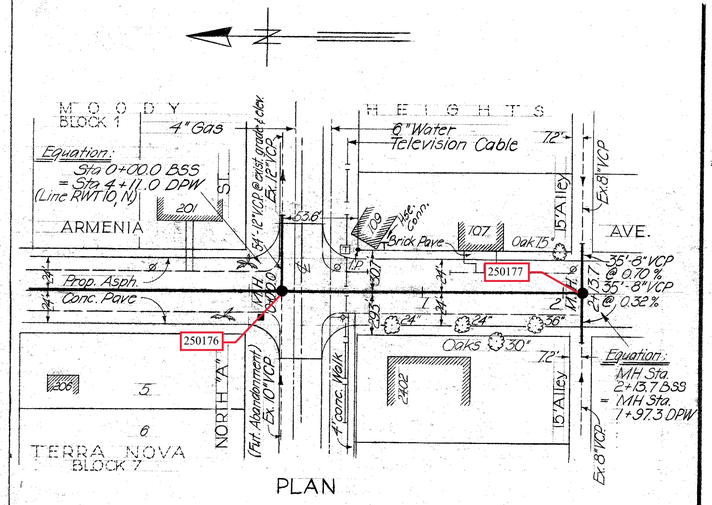
DES: J.M.R.
DRN: J.M.R.
CKD: C.M.T.
SCALE: 1"= 50'
DATE: Dec. 63

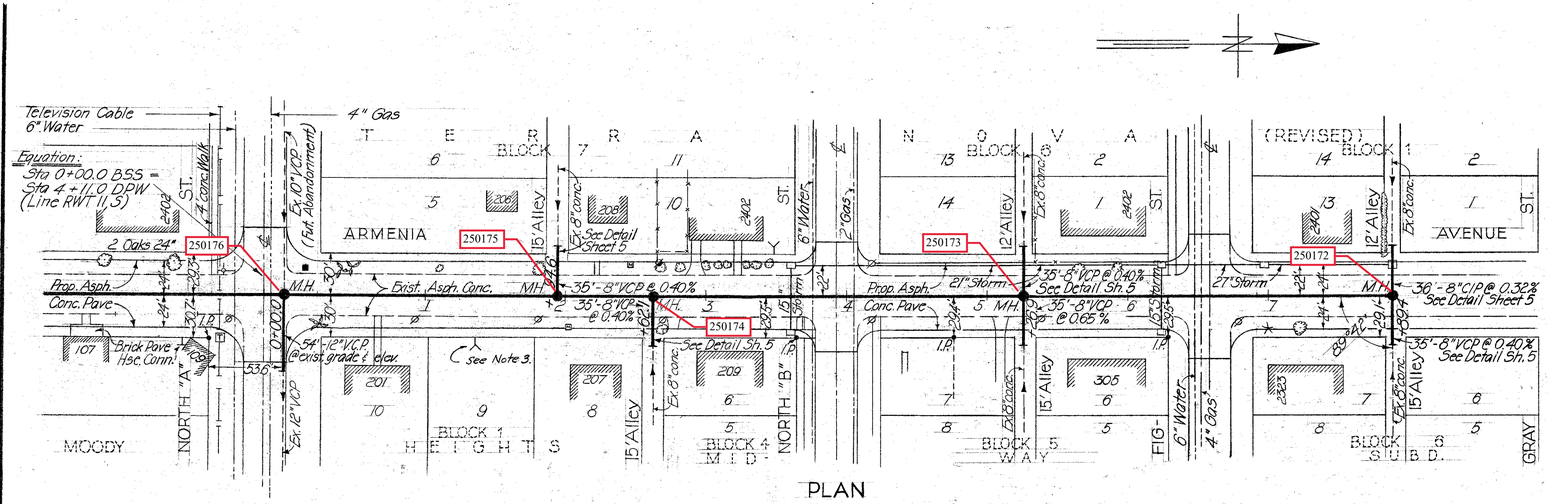
RENEWAL & REPLACEMENT PROGRAM
PROJECT: 3-2 SUBDISTRICT: A-4

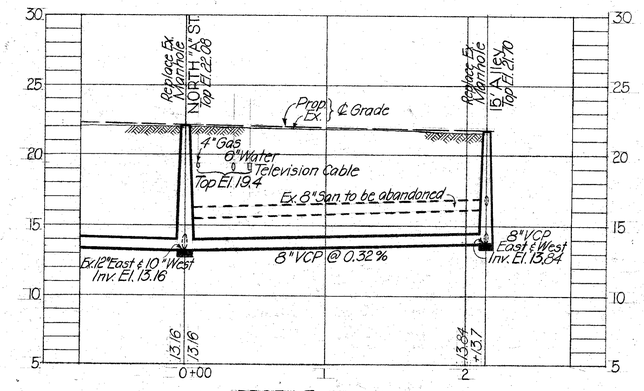
SHEET: 10 OF 15

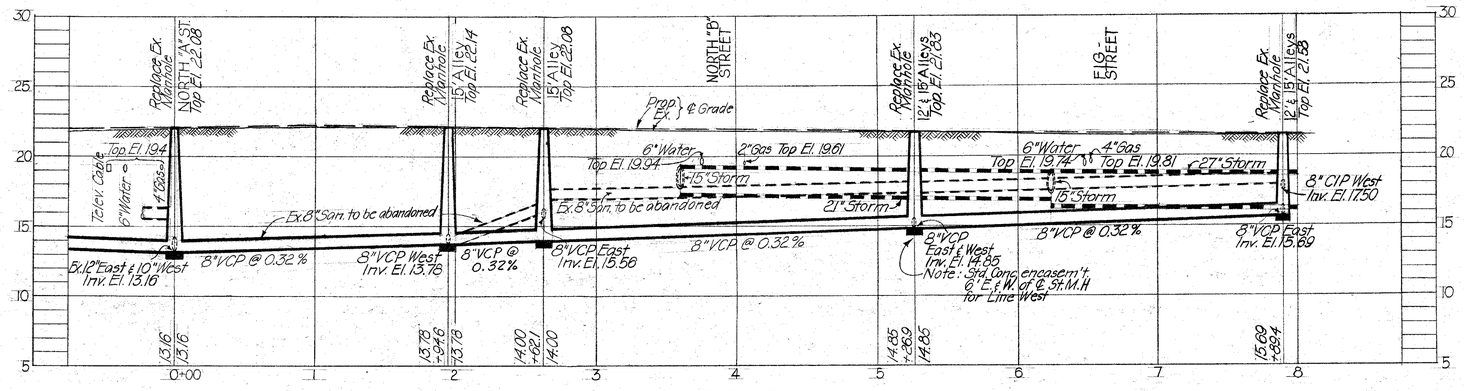
7-19

007-019









Notes:

1) Paving replacement; paving disturbed by San. Sewer Construction shall be replaced with 1½" Asphaltic Cold Mix applied over 9" compacted lime rock base and 12" of stabilized subgrade. Top of lime rock shall match surface of existing paving.

2) Replace Existing house connections from proposed main sewer to property line, where existing main sewer is demolished or abandoned.

3) Y, indicates 8"x6" wye @ main sewer with 6" house connection to ℄.

PLANS & PROFILES
LINES RWT-10, RWT-11

DIV. 2-A, CONT. NO. 3, PROJ. NO. 3-SERIES D

Sanitary Sewer Construction
Alley S. of Gr. Central to Alley S. of Fig.

DES. C.T.
DR: H.K.
CK'D: ASC
DATE FEB. '62

SCALE: 1"= 50' & 5'

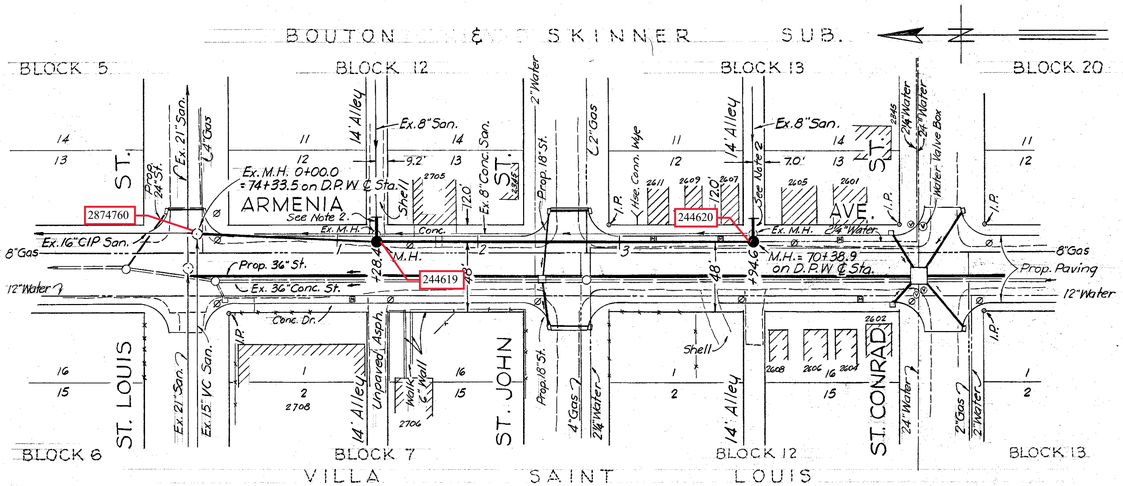
SHEET 2 OF 6

8-3

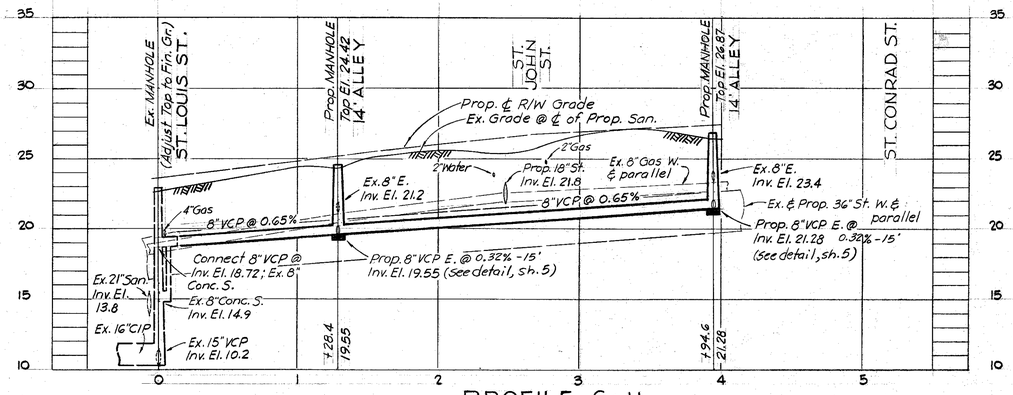
W.O. 1421

Bureau of San. Sewers
City of Tampa, Fla.

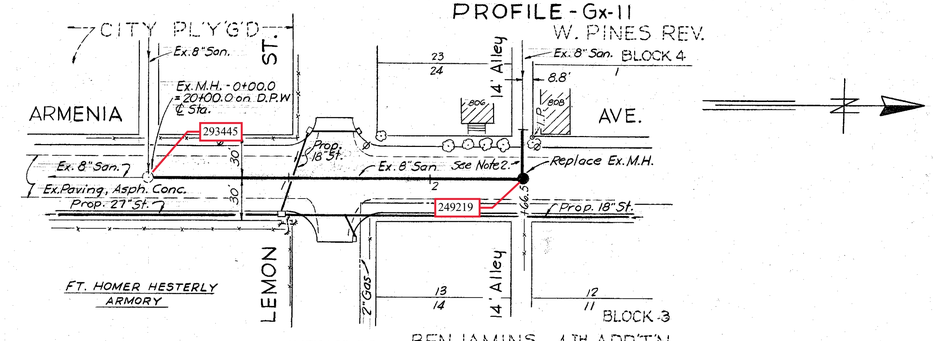
DPW FILE NO. H-5-1 DPW SHEET 68 OF 72 SHEETS



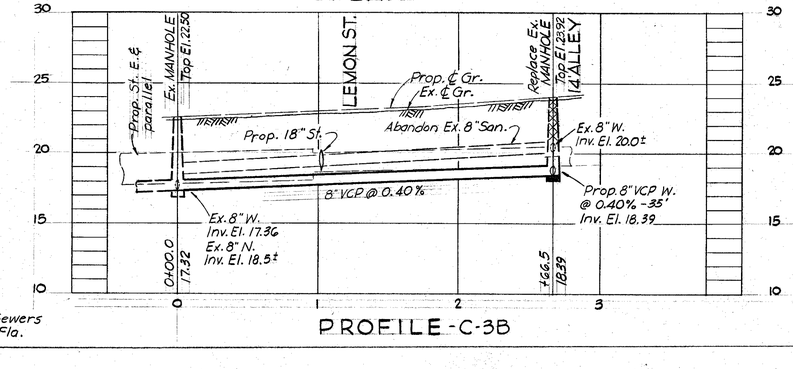
PLAN



PROFILE - Gx-11

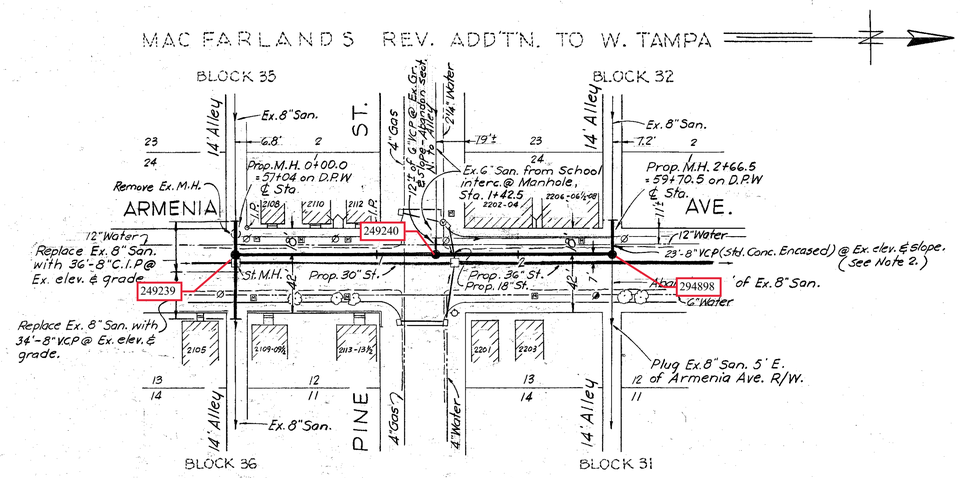


PLAN BENJAMINS 4TH ADD'TN.

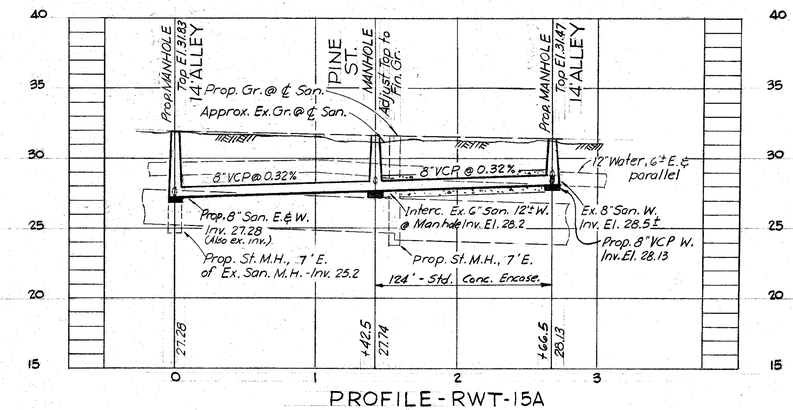


PROFILE - C-3B

Bureau of San. Sewers
City of Tampa, Fla.



PLAN



PROFILE - RWT-15A

Notes:

1.) Paving Replacement for Line C-3B; paving disturbed by San. Sewer construction shall be replaced with ½" Asphaltic Cold Mix applied over 9" compacted lime rock base and 12" of stabilized subgrade. Top of lime rock shall match surface of existing paving.

2.) See "Connection of Prop. to Ex. Sewer", Sh. 5

3.) Replace Existing house connections from proposed main sewer to property line, where existing main sewer is demolished or abandoned.

4.) Y, indicates 8"x6" Wye @ main sewer with 6" house connection to R.

PLANS & PROFILES
LINES C-3B, Gx-11 & RWT-15A

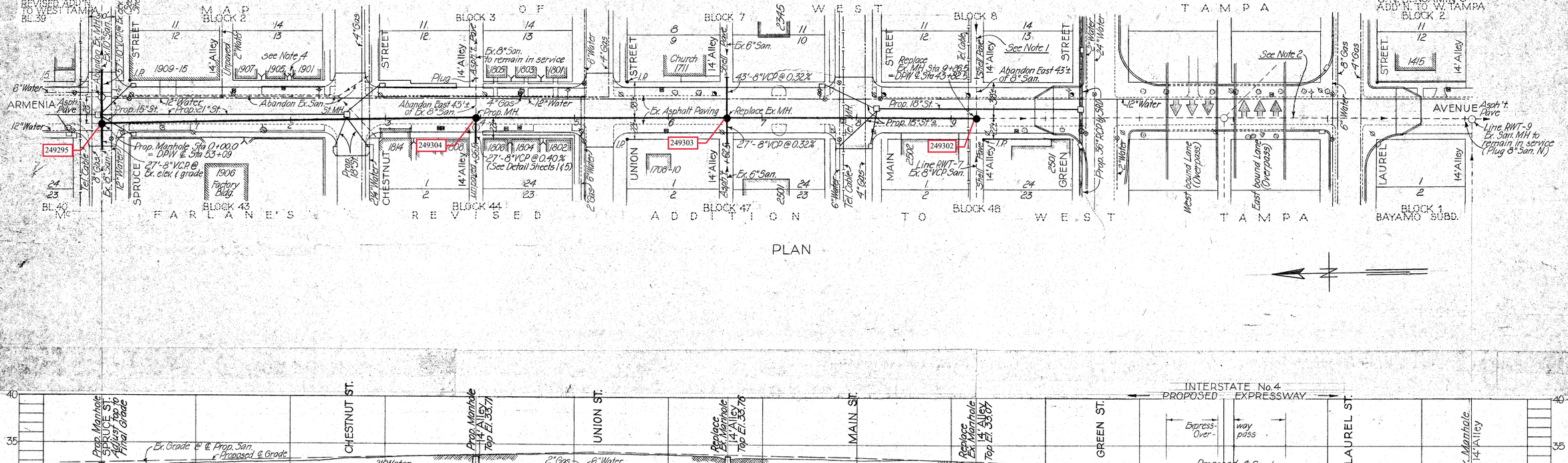
DIV. 2-A, CONT. NO. 3, PROJ. NO. 3, SERIES D

Sanitary Sewer Construction
Alley S. of Lemon St to Alley N. of Lemon St
" S. " Pine " " " N. " Pine "
" N. of St. Conrad " " St. Louis "

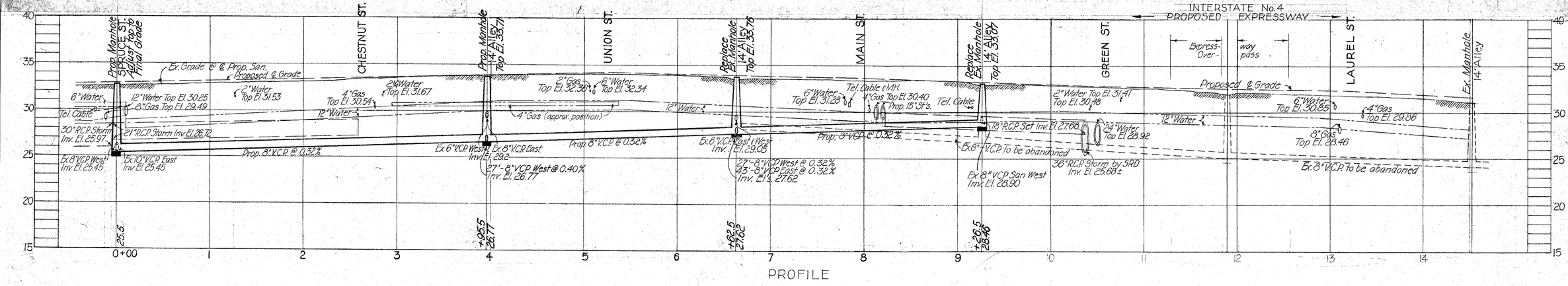
DES. C.T.	SCALE: 1"=50' & 5'	SHEET 3 OF 6
DR: C.T.		
C'K'D: ASC		
DATE FEB. '62		

W.O. 1421

8-4



PLAN



PROFILE

Notes:

1) Line effluent from West to Exist. San. Manhole @ Howard Avenue & Alley North of Green Street to be extended West 150'± from a point 400' West of forementioned Manhole @ slope to suit existing house connections and ground elevations. This temporary 6" V.C.P. service connection to be constructed by Bureau of Sanitary Sewers personnel.

2.) Exist. 8" San. to be abandoned from Alley North of Green Street to Exist. Manhole @ Alley South of Laurel Street.

3.) Replace existing house connections from proposed main sewer to property line, where existing main sewer is demolished or abandoned.

4.) Y indicates 8" x 6" wye @ main sewer with 6" house connection to P.L.

PLAN & PROFILE LINE RWT-13

DIV. 2-A, CONT. NO. 3, PROJ. NO. 3 - SERIES D

Sanitary Sewer Construction

Alley N. of Green St. to Spruce St.

DES. CT
DR. HK
C'K'D. ASC
DATE FEB. '62

SCALE: 1"=50' & 5'

SHEET 4 OF 6

W.O. 1421

Bureau of San. Sewers
City of Tampa, Fla.

DPW FILE NO H-5-1 DPW SHEET 70 OF 72 SHEETS

Live house connections existing at time of construction of Sewer

Sta	Direction	Address
10+87.0	W	2501 Glenwood Dr
+11.0	E	707 Amelia Av.
12+17.0	W	2505 Glenwood Dr.
12+64.0	W	2507 " "
	W	2509 " "

AS-BUILT PLAN

Revised to show actual conditions according to construction recor
as of 11-3-'52)
(G.L.L. 2-24-'53)

Note:
Existing Manhole at Sta.12+64.0 to be removed and new Manholes to be built as shown. Existing 8" Sewer from Sta.9+82.2 to Sta.12+64.0 to be removed and replaced with 8" V.C.P. and the connections to the existing Sewer to be reconnected to the new Sewer.

PLAN

*Denotes house Conn. plugged at sewer

Payment for the 8"V.C.P. will be made from Sta 9+82.2 to Sta 13+18.0

Dept of Public Works
Force Account No. 13
Work Started Oct. 27, 1952
Work Completed Nov. 3, 1952

PROFILE LINE "A"

This Sewer Extension Drawing shows the relocation of the 24 inch Water Main in Amelia Ave. by the City of Tampa Water Dept., thus enabling the construction of 335.8 feet of 8-inch V.C.P. Sewer in the Alley East of Glenwood Drive necessary to complete the construction of Line "A" originally to be built under Division E1.

CITY OF TAMPA FLORIDA
SEWER IMPROVEMENTS
ADDITIONAL SEWER EXTENSIONS IN AREA 1
SEWER LOCATION
LINE "A"
STA 9+82.2 TO STA.13+18.0

FORCE ACCOUNT No 13 — SUBMITTED: Dept. of Public Works — APPROVED: Greeley and Hansen, Engineers — SCALE 0 50 1"=50' — SHEET 1-6 OF 1

M.H., Div. E4, K-2 Sta. 13+28.1

Dept of Public Works
Force Account No. 13
Work Started 4-1-53 Work Completed 4-3-53

PLAN

AS-BUILT PLAN

Revised to show actual conditions according to construction records as of April 3, 1953
(J.J.S. 4-9-53)

PROFILE K-2-A

DEPT. OF PUBLIC WORKS
SEWER CONSTRUCTION OFFICE

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS
ADDITIONAL SEWER EXTENSIONS IN AREA 4
K-2-A

FORCE ACCOUNT No 13 — SUBMITTED: Dept. of Public Works — APPROVED: Greeley and Hansen, Engineers — SCALE 0 50 1"=50' — SHEET 1-2 OF 1

Note:
Existing Manhole at Sta.12+64.0 to be removed and new Manholes to be built as shown. Existing 8" Sewer from Sta.9+82.2 to Sta.12+64.0 to be removed and replaced with 8" V.C.P. and the connections to the existing Sewer to be reconnected to the new Sewer.

PLAN

Dept of Public Works
Force Account No 16
Work Started 7-17-53
Work Completed 7-23-53

PROFILE Bx-1

AS-BUILT PLAN

Revised to show actual conditions according to construction records as of 10-26-53
(EES 10-26-53)

DEPT OF PUBLIC WORKS
SEWER CONSTRUCTION OFFICE

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS
ADDITIONAL SEWER EXTENSIONS IN HYDE PARK AREA
Bx-1

FORCE ACCOUNT No 16 — SUBMITTED: Dept. of Public Works — APPROVED: Greeley and Hansen, Engineers — SCALE 0 50 1"=50' — SHEET 1 OF 1

—River Crest Park—

Existing live house connections at time of construction of new sewer

Address	Sta.	Direction
207 River Blvd.	1485.0	East

PLAN

Dept of Public Works
Force Account No 16
Work Started 4-17-52
Work Completed 4-23-52

AS-BUILT PLAN

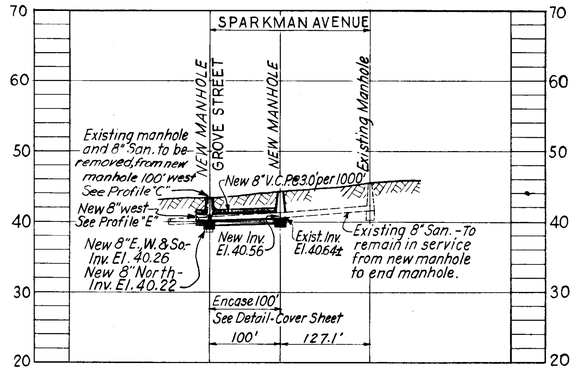
Revised to show actual conditions according to construction records as of 4-23-52
(G.L.L. 10-27-52)

PROFILE H-7-B

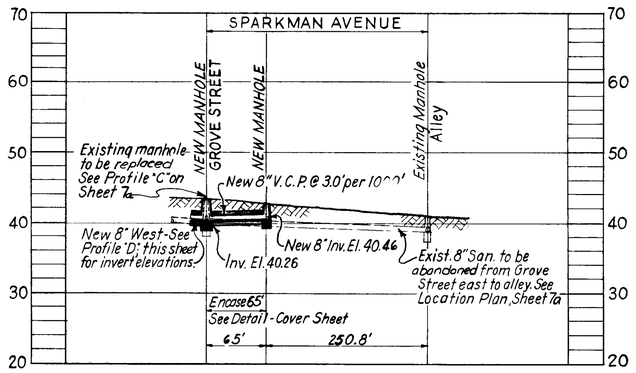
DEPT. OF PUBLIC WORKS
SEWER CONSTRUCTION OFFICE

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS
ADDITIONAL SEWER EXTENSIONS IN AREA 9
H-7-B

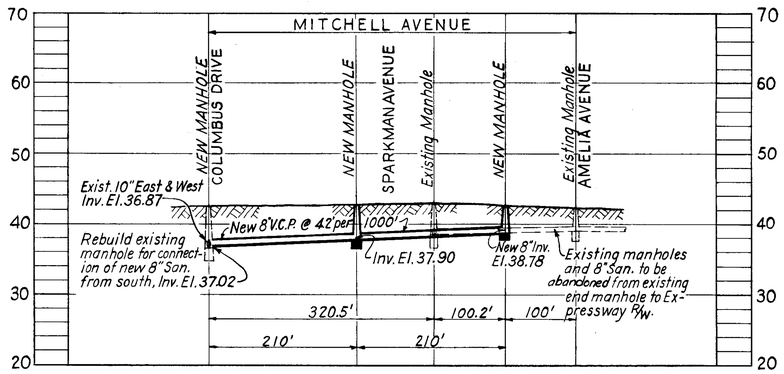
FORCE ACCOUNT No 16 — SUBMITTED: Dept. of Public Works — APPROVED: Greeley and Hansen, Engineers — SCALE 0 50 1"=50' — SHEET 1 OF 1



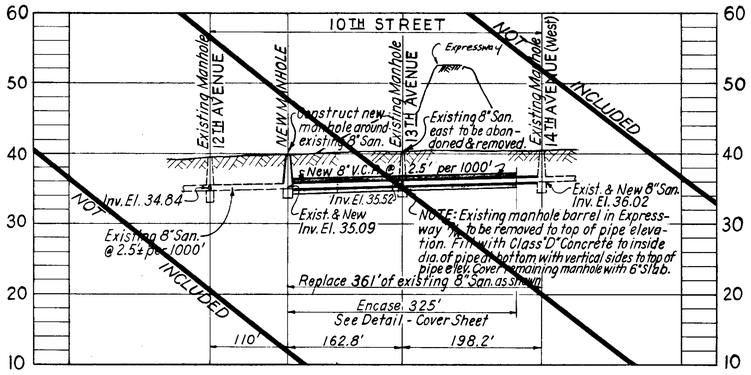
PROFILE "D"



PROFILE "E"



PROFILE "F"



PROFILE "G"

NOTES

1. See Cover Sheet for General Notes and Encasement Detail.
2. This section comes under Bureau of Sanitary Sewers Work Order No. 1142 (d)
3. See Sheet 7a for Location Plan and other profiles.

CITY OF TAMPA, FLORIDA
BUREAU OF SANITARY SEWERS

MODIFICATIONS DUE TO EXPRESSWAY SYSTEM

OAK AVE. NORTH TO COLUMBUS DRIVE & EAST TO NEBRASKA AVE.
IN CONJUNCTION WITH
S.R.D. PROJECT No. 10190 - 3427

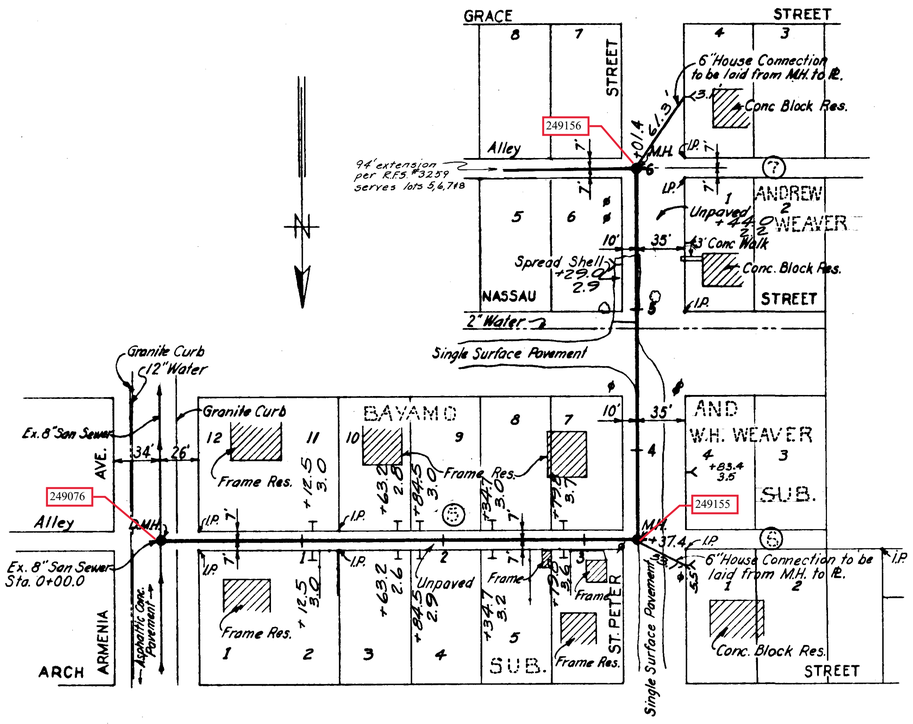
DES: R.M.J.
DR: R.M.J.
CKD: C.M.T.
DATE Nov., 1962

SCALES
LOCATION PLAN: 1" = 200'
PROFILES: HORIZ: 1" = 100'
VERT: 1" = 10'

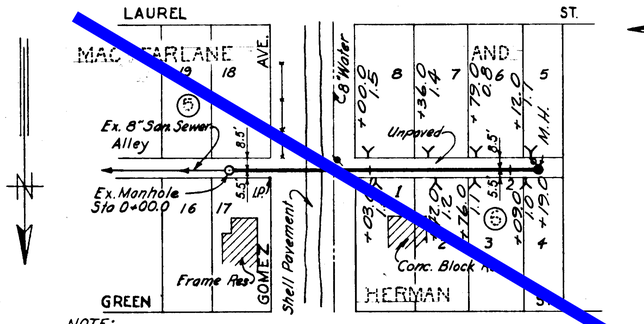
SHEET 8 OF 14

Ex. F.A. #4

22-27

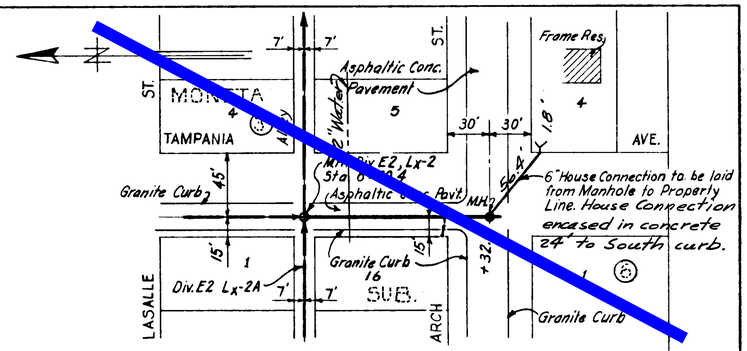


PLAN



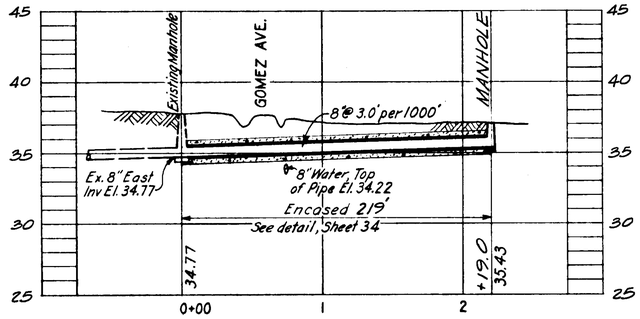
NOTE:
House Connections between Sta. 0+00 & Sta. 2+20 to be encased to property lines with Class "D" concrete.

PLAN



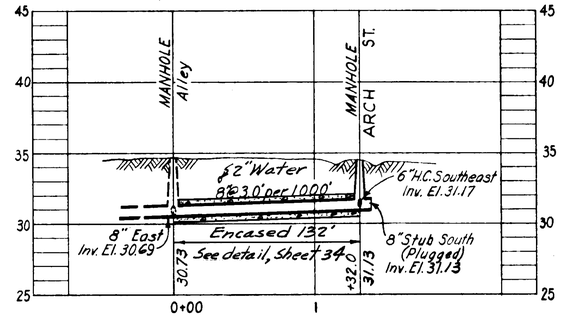
PLAN

Shell Pavement
Sta. 0+55 to Sta. 0+67.0

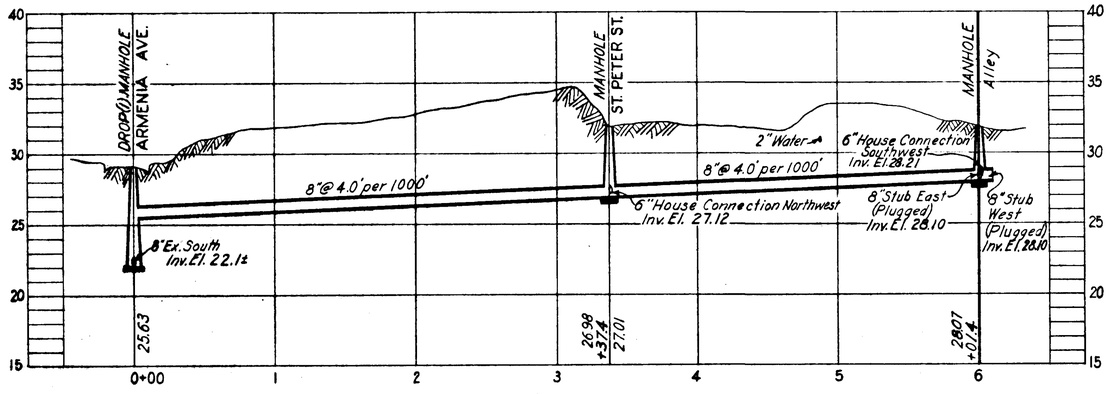


PROFILE
Lx-5

Asphaltic Concrete Pavement
Sta. 0+00 to Sta. 1+32 & 15' for House Conn



PROFILE
Lx-2-B



PROFILE
Lx-7

See file Nº 22-18

DEPT. OF PUBLIC WORKS
SEWER CONSTRUCTION OFFICE

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of 3-16-53
(J.J.S. 3-5-53)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS

ADDITIONAL SEWER EXTENSIONS IN AREA 2

Lx-2-B, Lx-5, & Lx-7

DES: J.W.H.
DR: A.T.U.Jr.
CKD: W.W.S.
DATE DEC., 1951

SCALE 50 0 50 100 1" = 50'

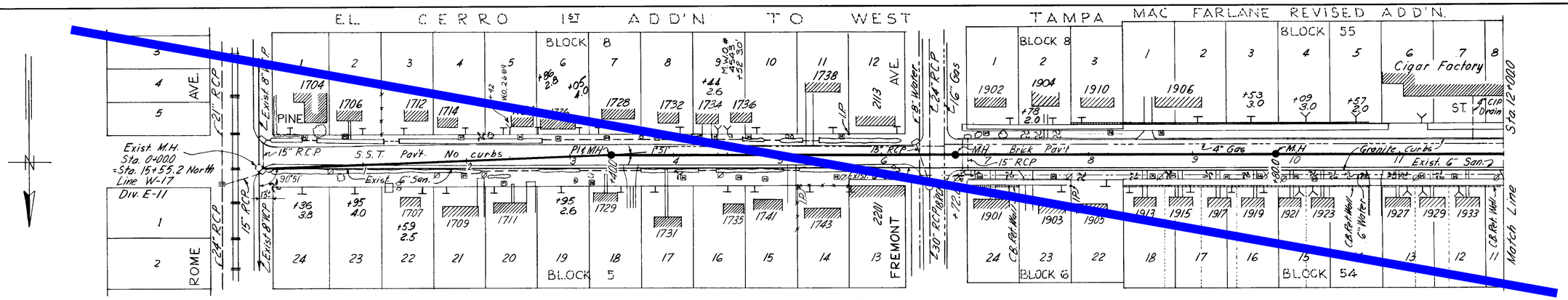
SHEET 13 OF 35

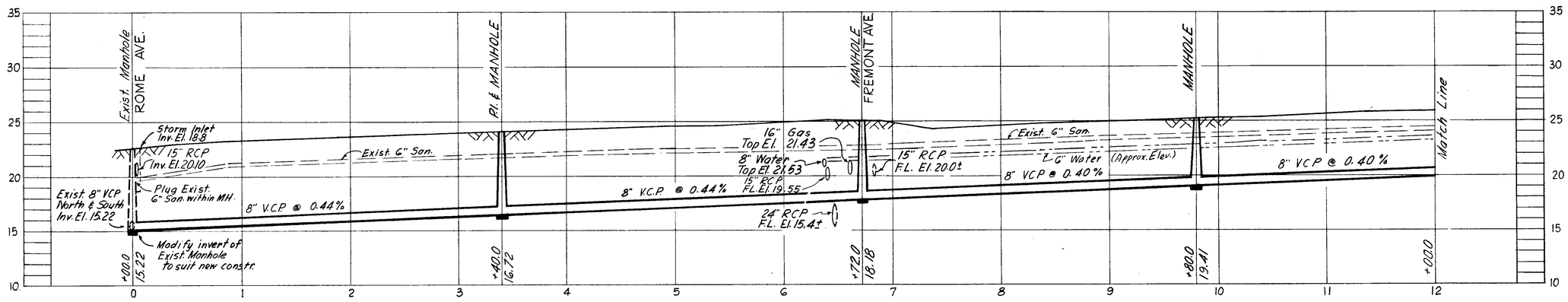
SEWER LINE LOCATION
SEC. (MAP No.) | LINE No.
H-10-61

SEWER LINE LOCATION
SEC. (MAP No.) | LINE No.
H-10-62

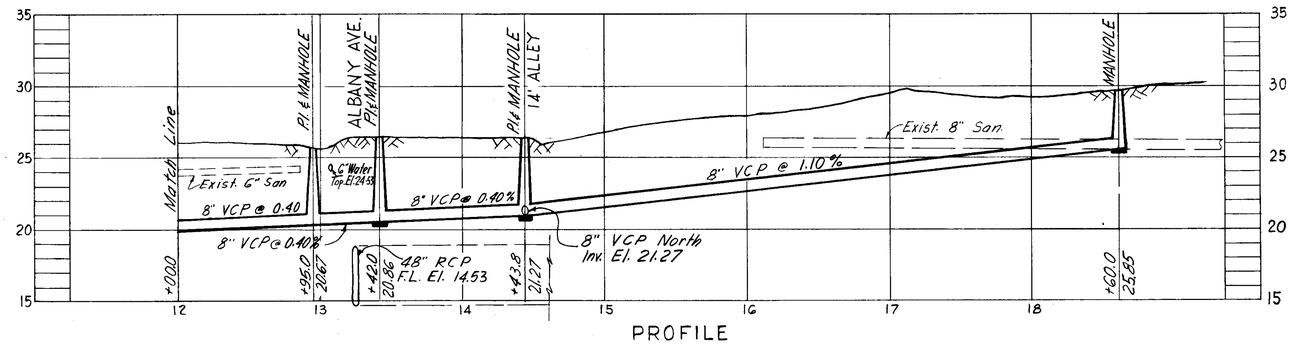
SEWER LINE LOCATION
SEC. (MAP No.) | LINE No.
H-10-63

25-14





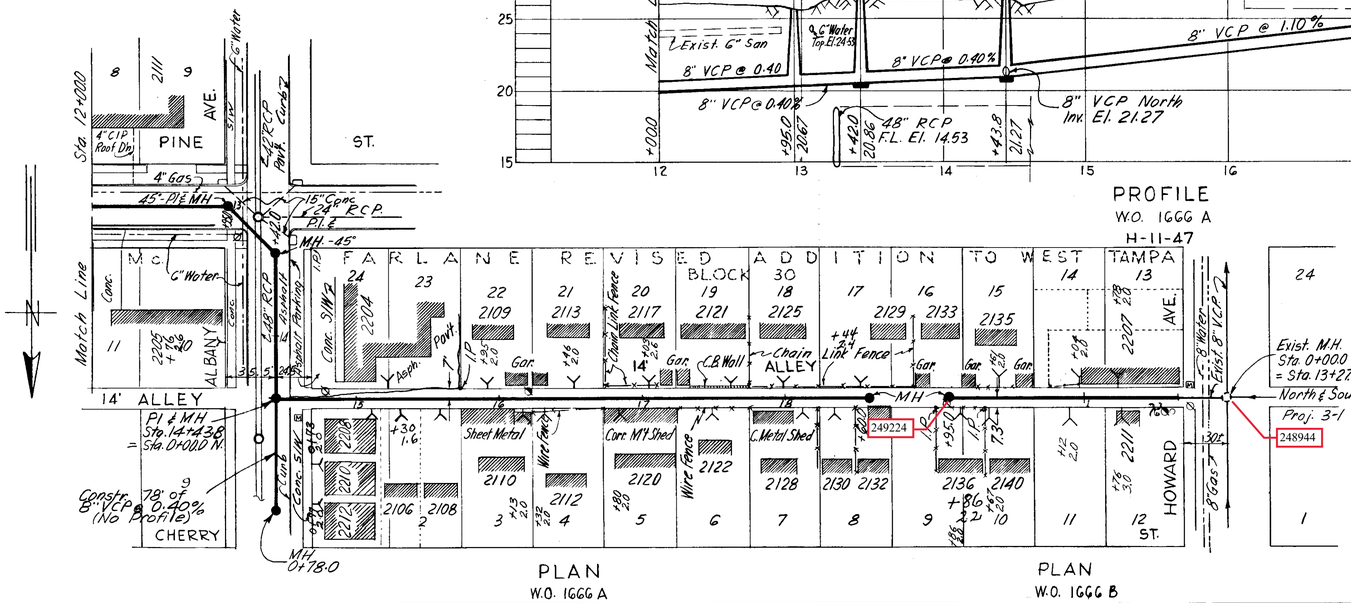
PROFILE
W.O. 1666 A
H-11-47

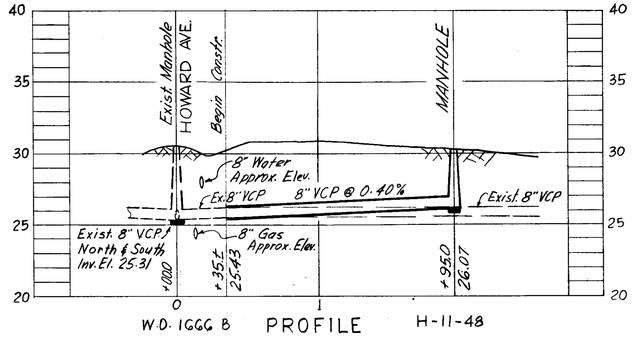


PROFILE
W.O. 1666 A
H-11-47

NOTES:
1. Exist. & new house connections shall be replaced from main sewer to R/W line with 6" V.C.P. @ minimum 1% Slope.
2. Datum: T.B.M, Elev. 26.375 Top of curb @ N.E. corner of Alley N. of Pine St. & Albany Ave.

Revision: July 13, 1966
Added 78' of 8" VCP N. from M.H. Sta. 14+43.8 @ 0.40 Slope





SEWER LINE LOCATION	
SEC. MAP No.	LINE No.
H - 11	47
H - 12	48

R & R 52 W.O. 1666 A & B

CITY OF TAMPA, FLORIDA

RENEWAL & REPLACEMENT

SEWER IMPROVEMENTS

PINE ST.-ALBANY AVE.: Rome Ave. to Alley N. of Pine St.

ALLEY N. of PINE ST.: Albany Ave. to the West

ALLEY N. of PINE ST.: Howard Ave. to E. 195'

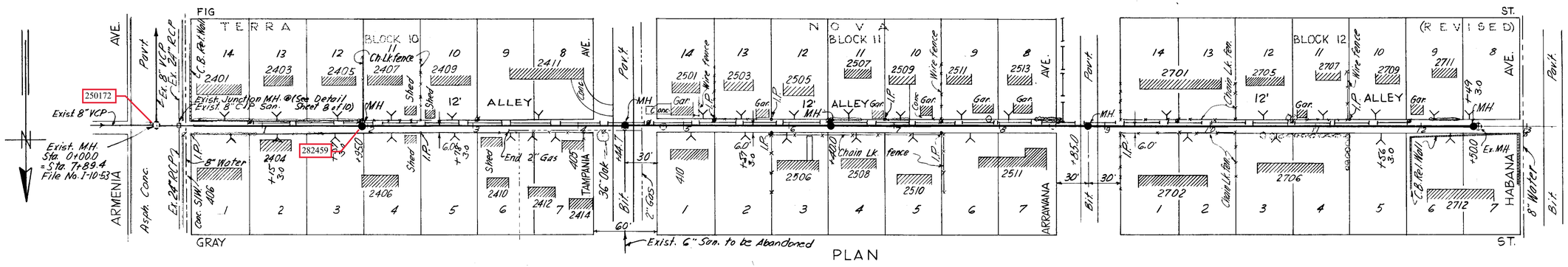
DES: J.M.R.
DRN: J.M.R.
CKD: C.M.T.
DATE: JULY 1965

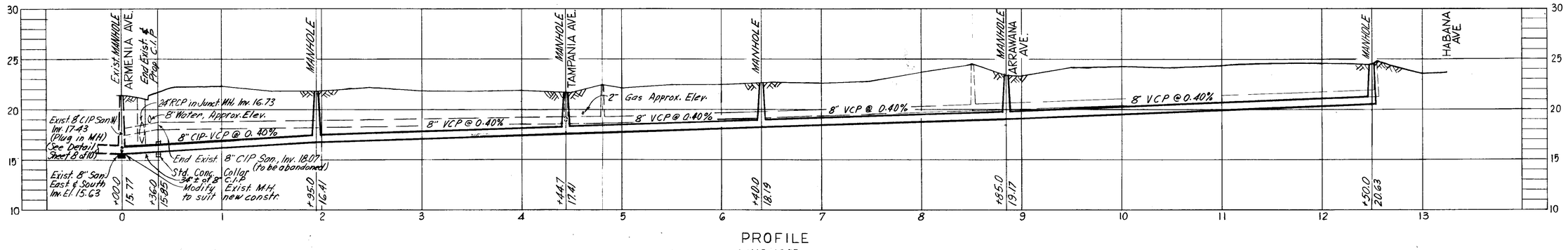
SCALE: 50 0 50 100
1" = 50'

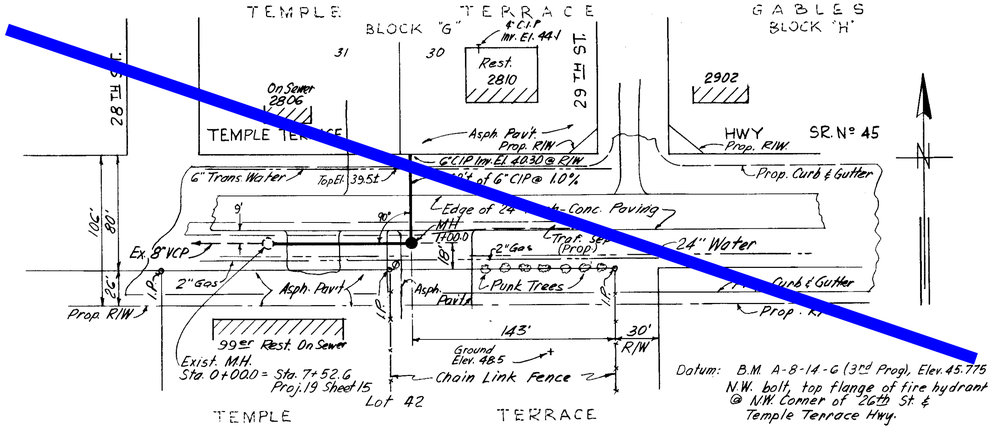
Drainage Subdistrict A - 5

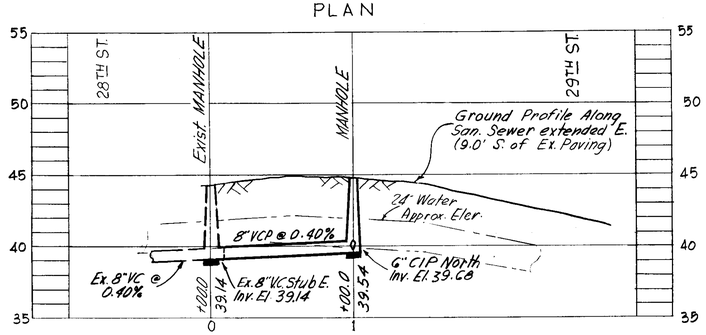
SHEET 7 OF 9

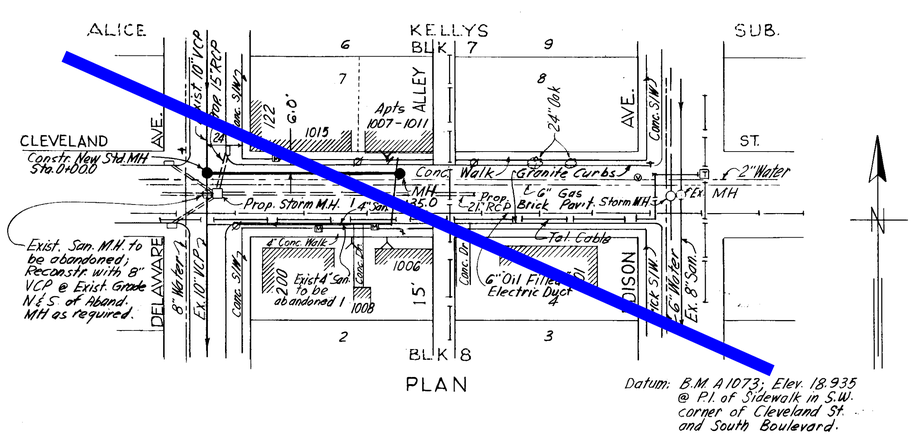
33-6

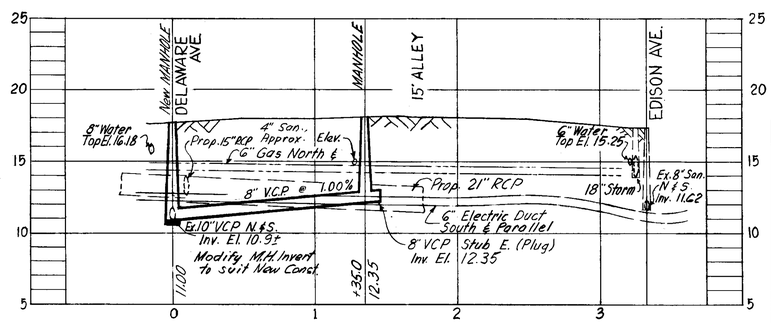












SEWER LINE LOCATION	
SEC. MAP No.	LINE No.
1-10	79
C-14	3
1-11	30

R & R 53 W.O. 1661, 1665 & 1767

CITY OF TAMPA, FLORIDA

RENEWAL & REPLACEMENT

SEWER IMPROVEMENTS

ALLEY N. OF FIG ST.: Armenia Ave. to Habana Ave.
TEMPLE TERRACE HWY.: 28th St. to 29th St.
CLEVELAND ST.: Delaware Ave. to the East, 135'

DES: CMT
DRN: JMR
CKD: CMT
DATE: NOV. 1965

SCALE: 50 0 50 100
1" = 50'

SHEET 4 OF 10

Drainage Subdistrict A-4, A-5, A-10

33-12

MIDWAY TERRA NO. IA (REV.)

PLAN

Single Surface Treatment Pavt. Sta. 64+00 to Sta. 64+18.0 | Vit. Brick Pavement Sta. 64+18.0 to Sta. 64+91.3 | Bit. Sand Seal Pavement Sta. 64+91.3 to Sta. 70+91.5 | Asphaltic Concrete Pavement Sta. 70+91.5 to Sta. 71+37.0 | Bit. Sand Seal Pavement Sta. 71+37.0 to Sta. 79+00

PROFILE

Wood Sheeting Left in Place

SEWER LINE LOCATION
SEC. MAP No. 1-11-36 | LINE No.

SEWER LINE LOCATION
SEC. MAP No. 1-10-83 | LINE No.

PLAN

Bit. Sand Seal Pavement Sta. 79+00 to Sta. 84+45.7 | Unpaved Sta. 84+45.7 to Sta. 90+00

PROFILE

SEWER LINE LOCATION
SEC. MAP No. 1-10-83 | LINE No.

GREELEY AND HANSEN ENGINEERS CHICAGO, ILL.

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of Aug. 13, 1951 (W.A.S. 12-26-51)

CITY OF TAMPA, FLORIDA.
SEWAGE DISPOSAL SYSTEM.

DIVISION C3.

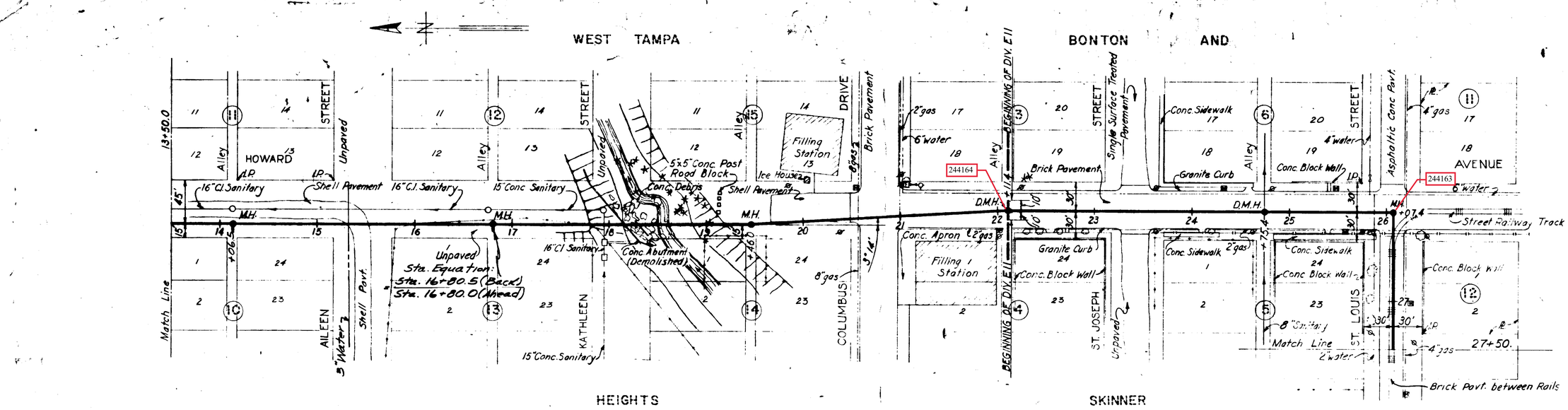
LEMON-GRAY STREETS TRUNK SEWER, STA. 64+00 TO STA. 90+00.

DES: REH DR: REH CKD: LAB DATE JUNE 1949

SCALE 50 0 50 100 1" = 50'

SHEET C3-6 OF 9

427



Pavement By City
Sta. 13+50.0 to Sta. 15+38.5

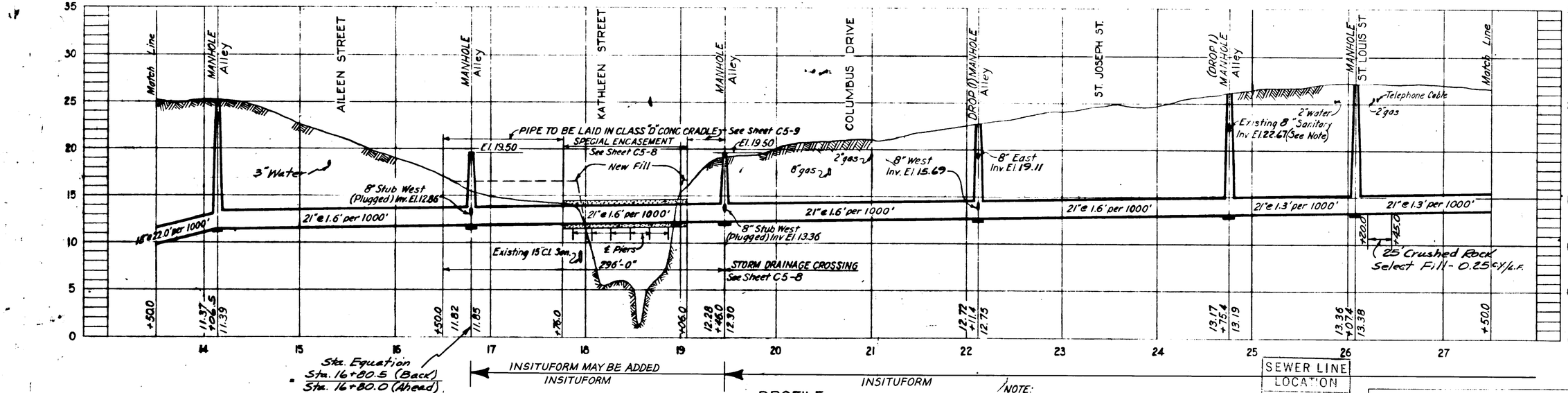
Single Surface Treatment Pavement
Sta. 15+38.5 to Sta. 15+57.1

Unpaved
Sta. 15+57.1 to Sta. 19+78.9

Shell Pavement
Sta. 19+78.9 to Sta. 20+49.2

Brick Pavement
Sta. 20+49.2 to Sta. 26+80.4

Shell Base By Contractor
Pavement By City
Sta. 26+80.4 to Sta. 27+50.0



PROFILE

SEWER LINE LOCATION	
SEC. MAP No.	LINE No.
G-15	39

NOTE:
1. Existing 10" sanitary sewer to be kept in operation, carried through New M.H. and broken out when new line is put into operation.
2. From Sta. 16+50± to Sta. 19+46.0 all sod and top soil to be removed and low spots to be filled with sand selected from surplus excavation, approved by the Engineer, firmly compacted and brought to uniform grade for placement of conc. cradle, and in span of Storm Drainage Crossing.

SEWER LINE LOCATION	
SEC. MAP No.	LINE No.
H-11	57

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of Aug. 4, 1952 (J.J.S. 8-7-52)

GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

CITY OF TAMPA, FLORIDA
SEWAGE DISPOSAL SYSTEM
DIVISION C5

WEST TAMPA TRUNK SEWER
STA. 13+50 TO STA. 27+50

DES. L.A.B.
DR. A.T.J.F.
CKD. W.W.S.
DATE MAY, 1950

SCALE 50 0 50 100 1"=50'

SHEET C5-4 OF 9

VILLA SAINT LOUIS

Brick Pavement
Sta. 32+41.6 to Sta. 32+55.9

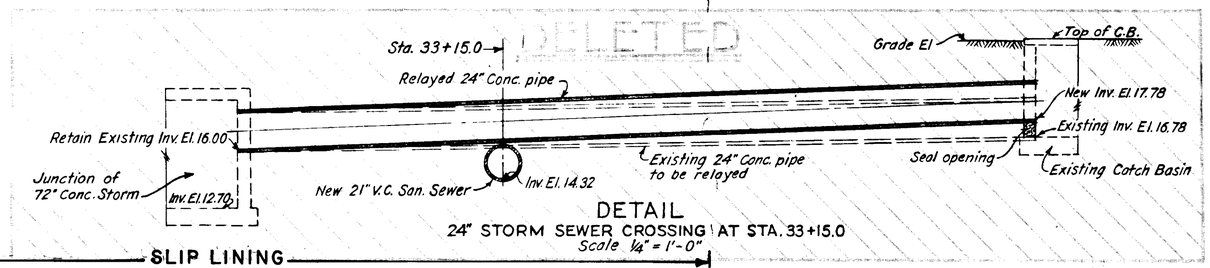
Asphaltic Concrete Pavement
Sta. 32+55.9 to Sta. 33+05.0

Unpaved
Sta. 33+05.0 to Sta. 42+50.0

Shell Base By Contractor
Pavement By City
Sta. 27+50.0 to Sta. 32+41.6

PLAN

DELETED



DETAIL
24" STORM SEWER CROSSING AT STA. 33+15.0
Scale 1/4" = 1'-0"

SLIP LINING

PROFILE

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of Aug. 4, 1952 (J.J.S. 8-7-'52)

SEWER LINE LOCATION
SEC. MAP No. H-10 | LINE No. 82

SEWER LINE LOCATION
H-11-58

GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

CITY OF TAMPA, FLORIDA
SEWAGE DISPOSAL SYSTEM
DIVISION C5

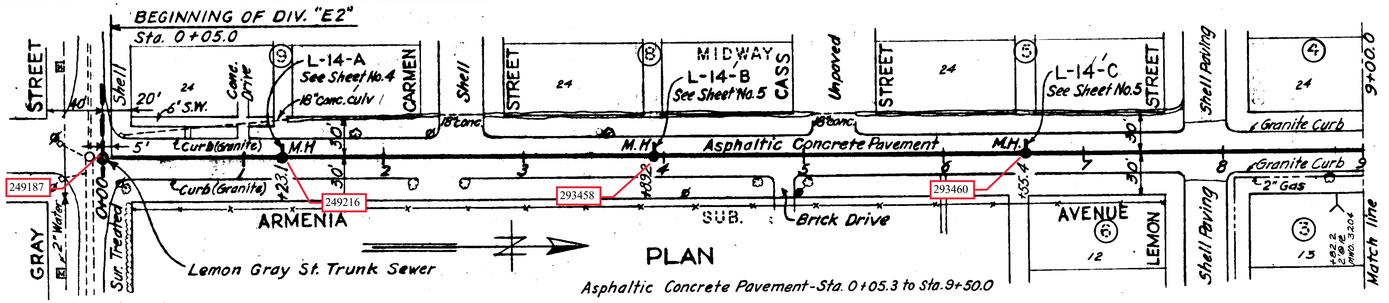
WEST TAMPA TRUNK SEWER
STA. 27+50 TO STA. 42+50

DES. L.A.S
DR. A.T.J.R.
CKD. W.W.S.
DATE MAY, 1950

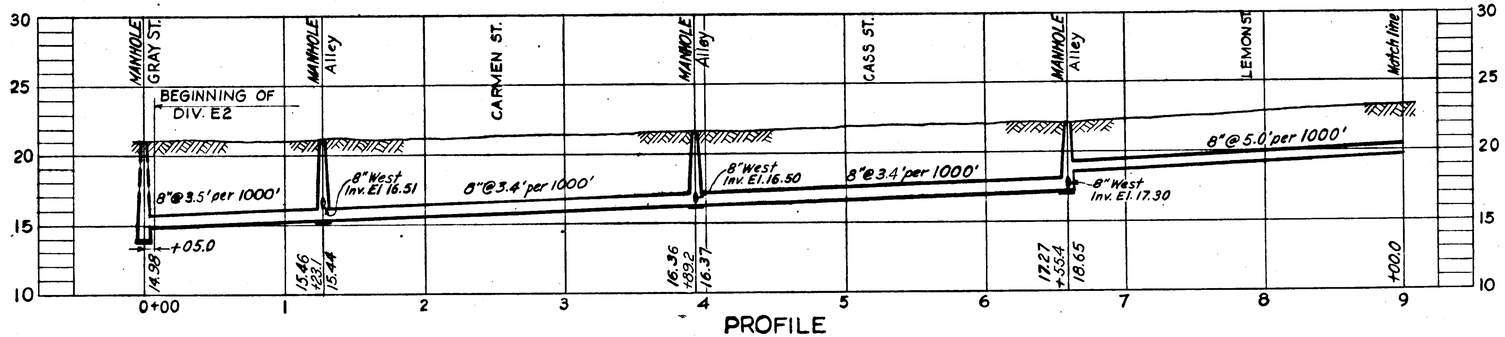
SCALE 50 0 50 100 1"=50'

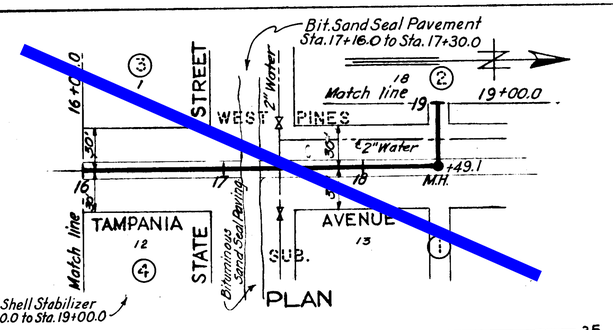
SHEET C5-5 OF 9

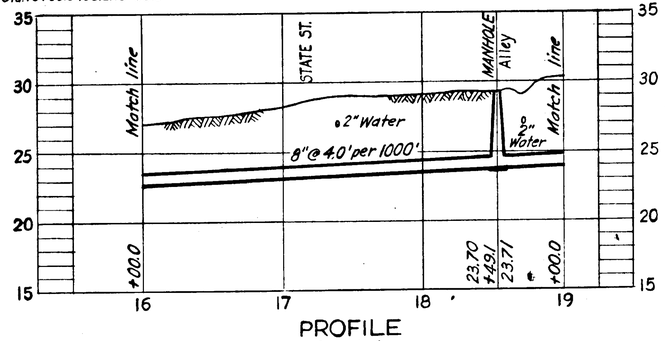
42-24

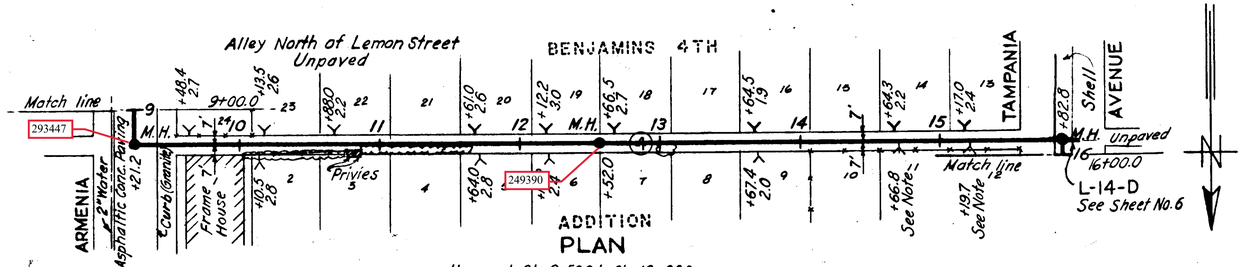


Asphaltic Concrete Pavement-Sta. 0+05.3 to Sta. 9+50.0

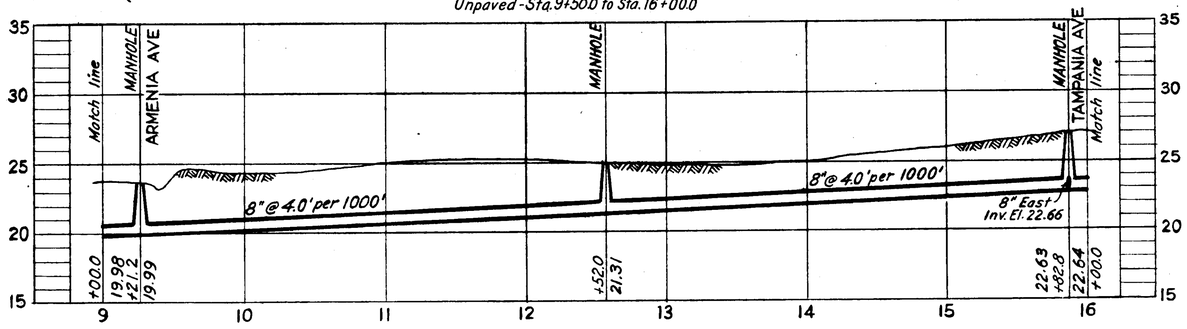


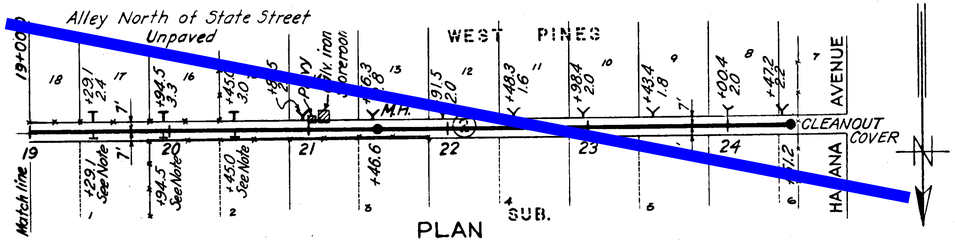




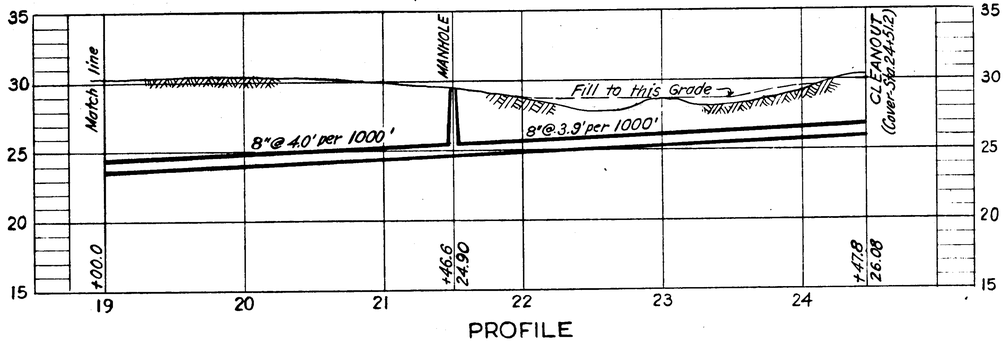


Unpaved-Sta.9+50.0 to Sta.16+00.0





Unpaved-Sta.19+00.0 to Sta. 24+51.4



NOTE: House connections at the following stations are plugged at sewer on side shown On Line L-14.

- Sta. 19+29.1 - North Side
- Sta. 14+66.8 - North Side
- Sta. 15+19.7 - North Side
- Sta. 19+94.5 - North Side
- Sta. 20+45.0 - North Side

SEWER LINE LOCATION	
SEC. MAP No.	LINE No.

GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of May 12, 1950 (R.M.J. 2-28-51)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS
DIVISION E2

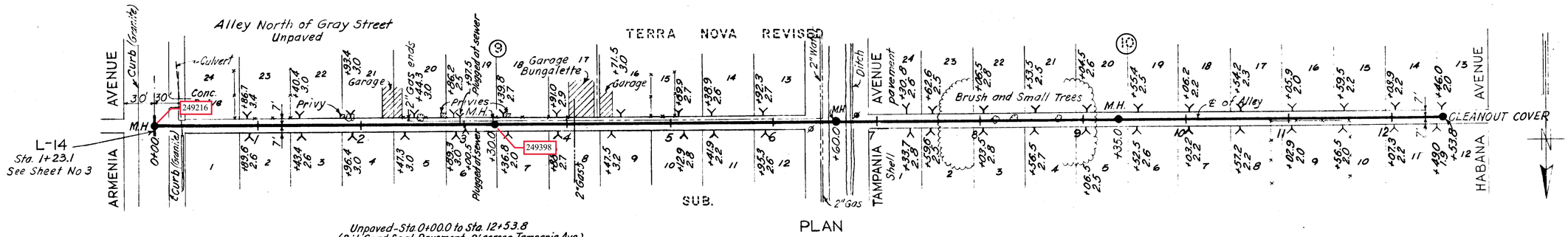
L-14

DES: R.E.H.
DR: J.W.H.
CKD: L.A.B.
DATE: JUNE 1949

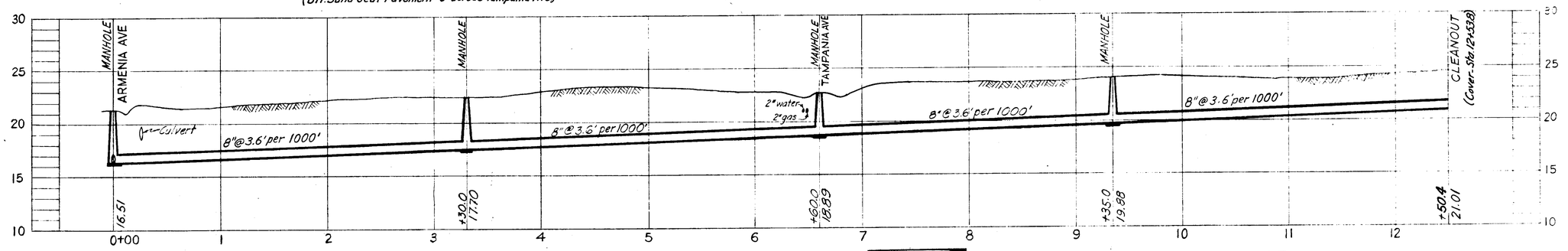
SCALE 50 0 50 100 1" = 50'

SHEET E2-3 OF 14

44-4



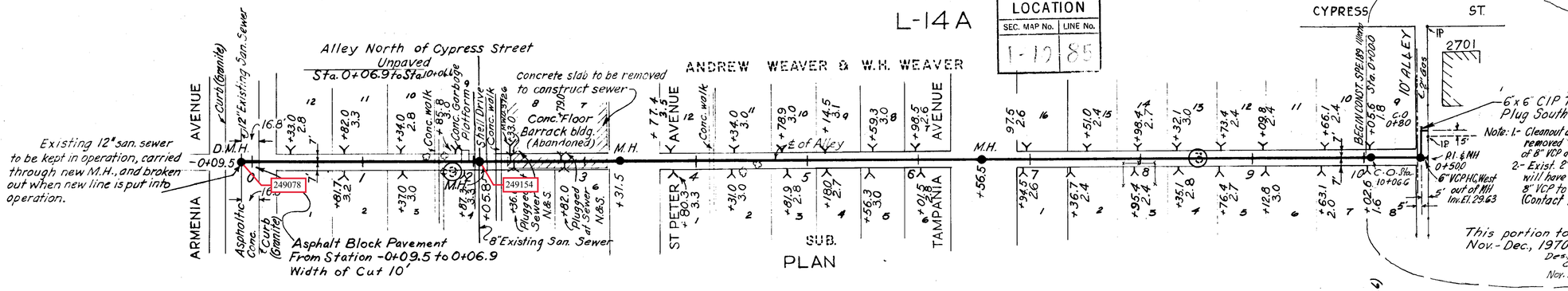
PLAN



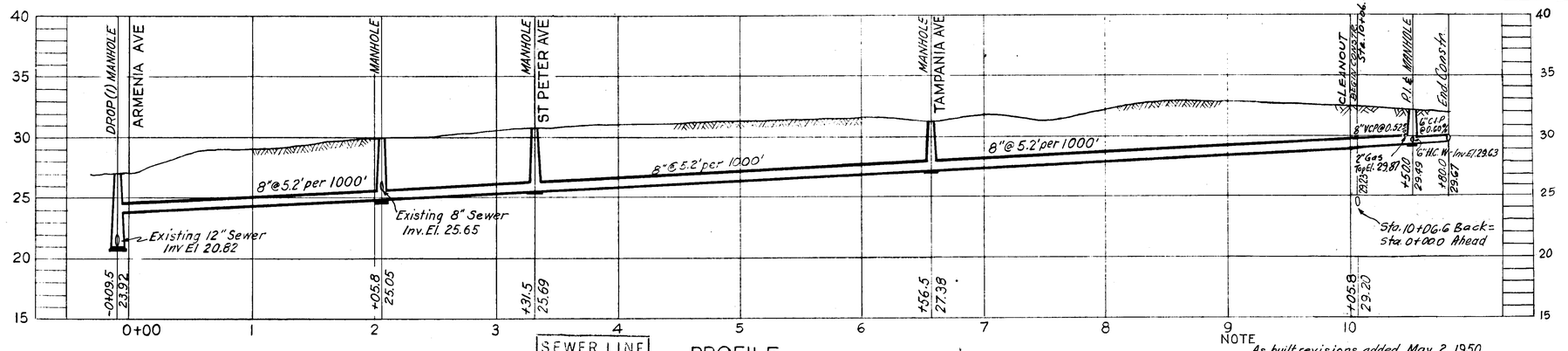
PROFILE

L-14 A

SEWER LINE LOCATION	
SEC. MAP No.	LINE No.
1-12	85



PLAN



PROFILE

L-x-1

SEWER LINE LOCATION	
H-10	64

NOTE

As built revisions added May 2, 1950
Stations at Ys & Ts is Station at End of House connection at Property Line or as noted.
As built revised August 31, 1950 to include additional data.
A.F. Lopez 9-5-50. By M. Ondina, Jr.

AS-BUILT PLAN

Revised to show actual conditions according to construction records as of Aug. 31, 1950 (R.M.J. 3-1-51)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS

DIVISION E2

L-14A & Lx-1

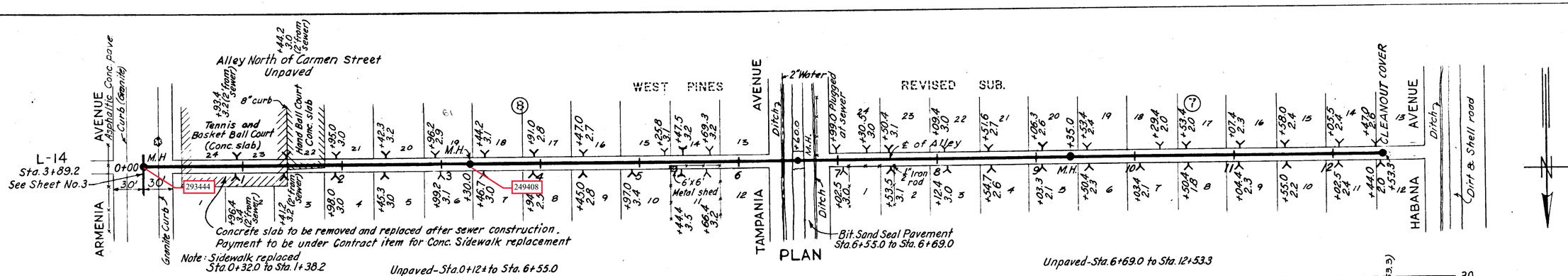
DES: R.E.H.
DR: J.W.H.
CKD: L.A.B.
DATE: JUNE 1949

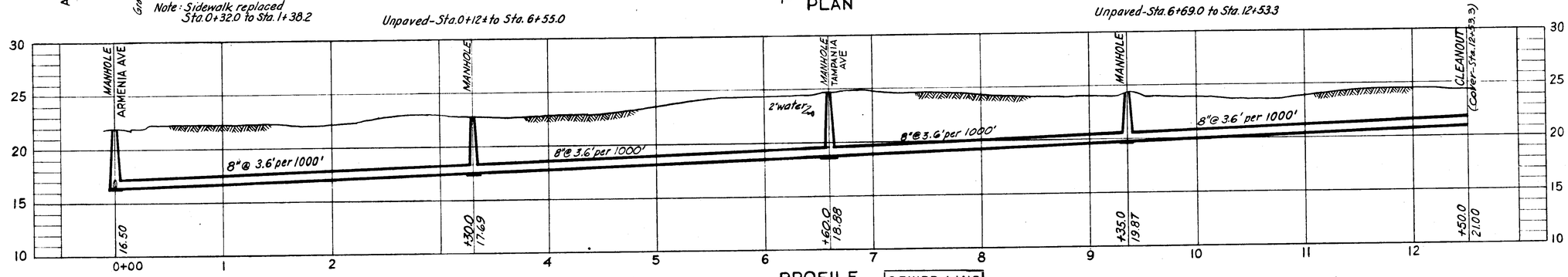
SCALE 50 0 50 100 1" = 50'

SHEET E2-4 OF 14

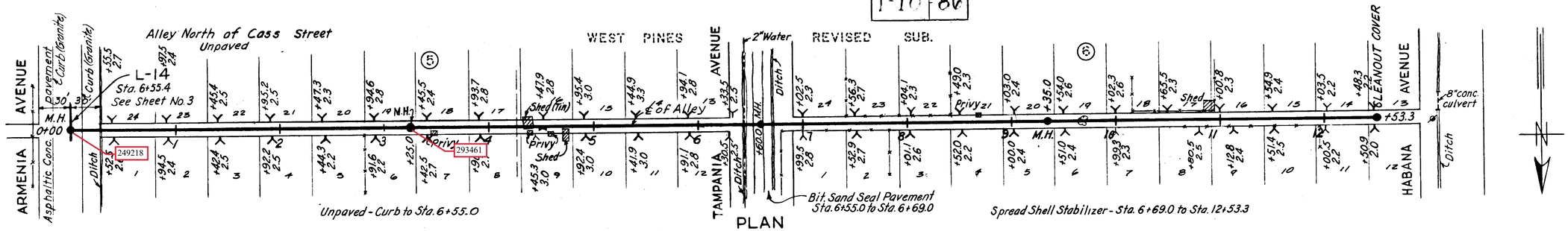
GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

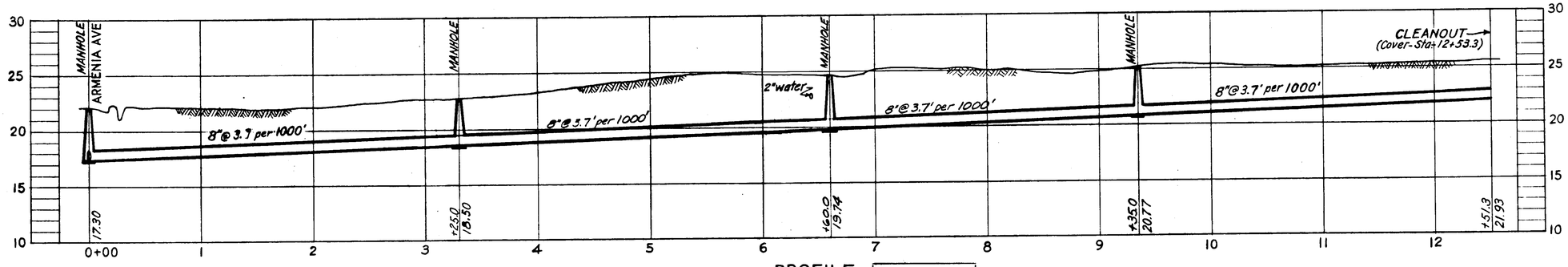
1-1-5





SEWER LINE LOCATION	
SEC. MAP No.	LINE No.
1-10	86





SEWER LINE LOCATION	
SEC. MAP No.	LINE No.
1-10	87

GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of May 12, 1950 (R.M.J. 3-5-51)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS

DIVISION E2

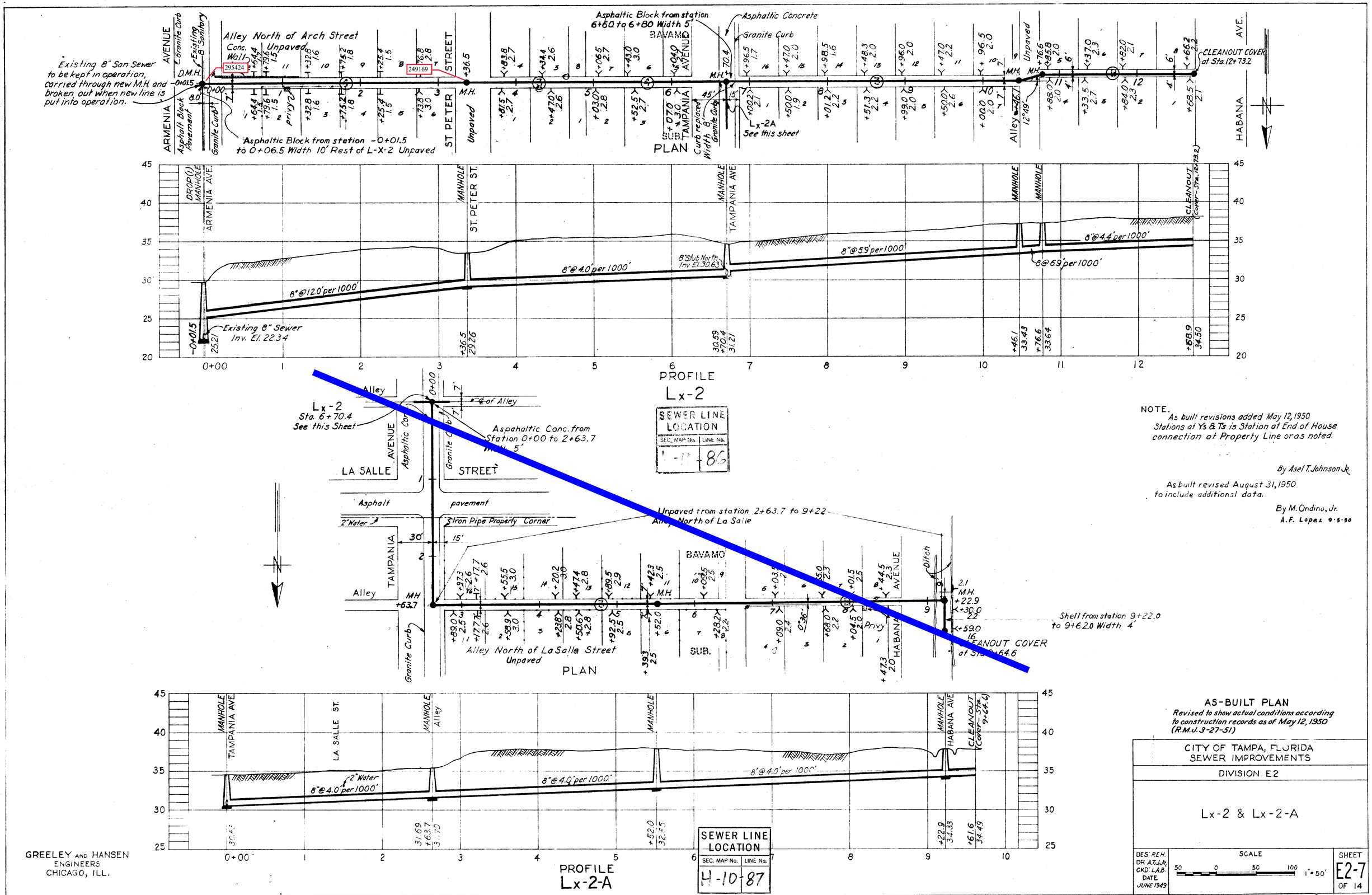
L-14-B & L-14-C

DES: R.E.H.
DR: J.W.H.
CKD: L.A.B.
DATE: JUNE 1949

SCALE 50 0 50 100 1" = 50'

SHEET E2-5 OF 14

44-6



SEWER LINE LOCATION

SEC. MAP No.	LINE No.
H-10	86

SEWER LINE LOCATION

SEC. MAP No.	LINE No.
H-10	87

NOTE.
As built revisions added May 12, 1950
Stations at Ys & Ts is Station at End of House connection at Property Line or as noted.

By Asel T. Johnson Jr.

As built revised August 31, 1950 to include additional data.

By M. Ondina, Jr.
A.F. Lopez 9-5-50

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of May 12, 1950 (R.M.J. 3-27-51)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS

DIVISION E2

Lx-2 & Lx-2-A

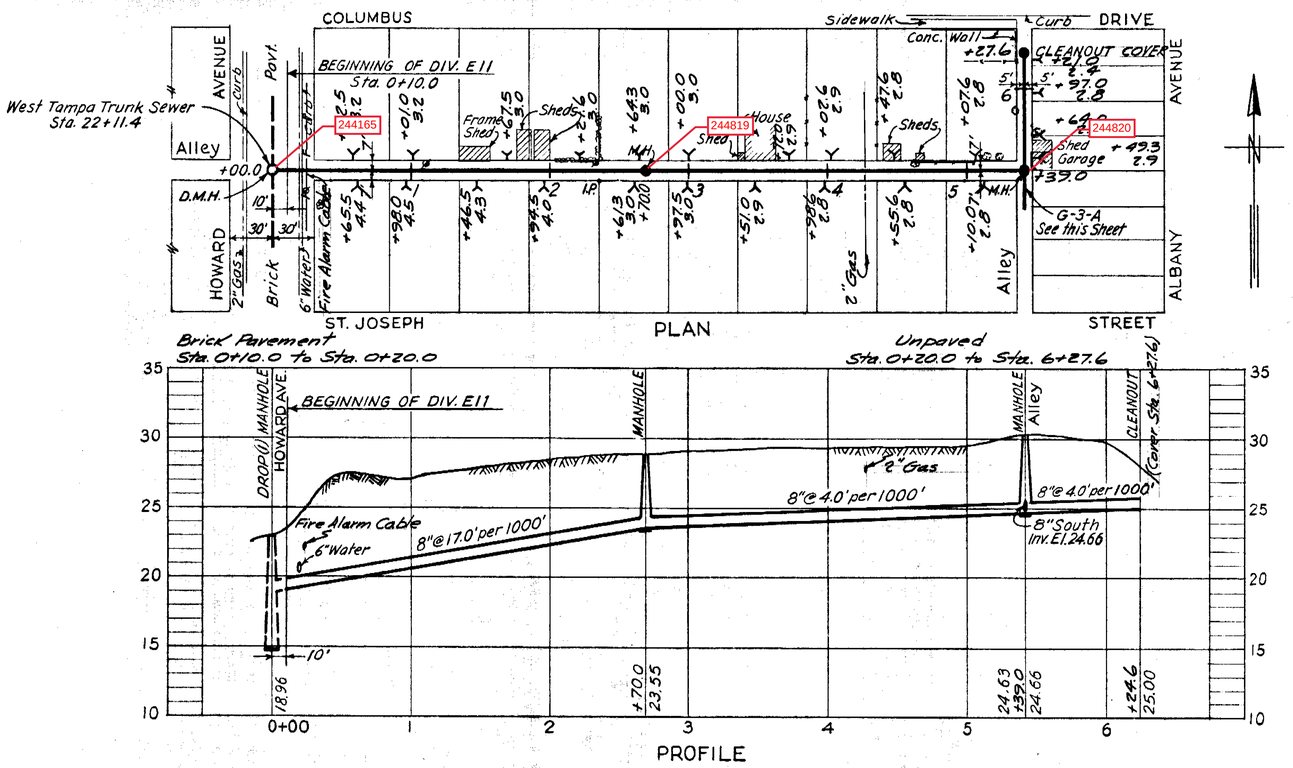
DES: REH.
DR: A.T.J.Jr.
CKD: L.A.B.
DATE: JUNE 1949

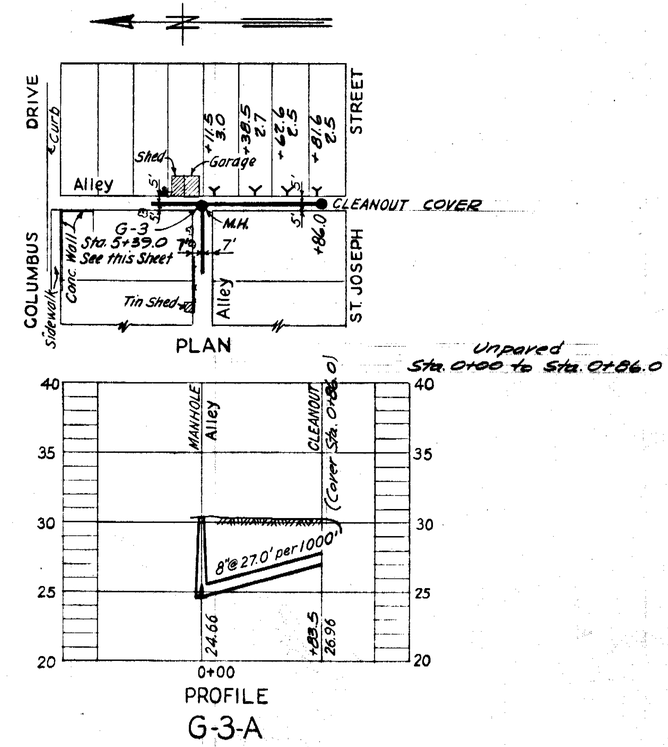
SCALE 50 0 50 100 1"=50'

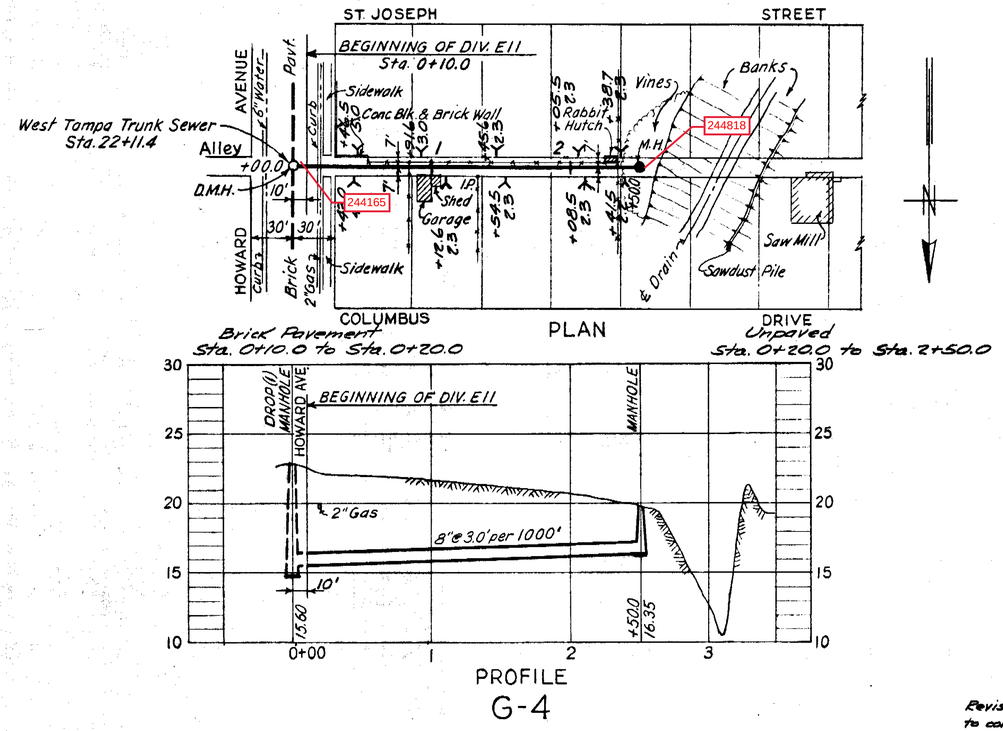
SHEET E2-7 OF 14

GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

44-8







GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of Apr. 22, 1952.
(J.J.S. 6-21-52)

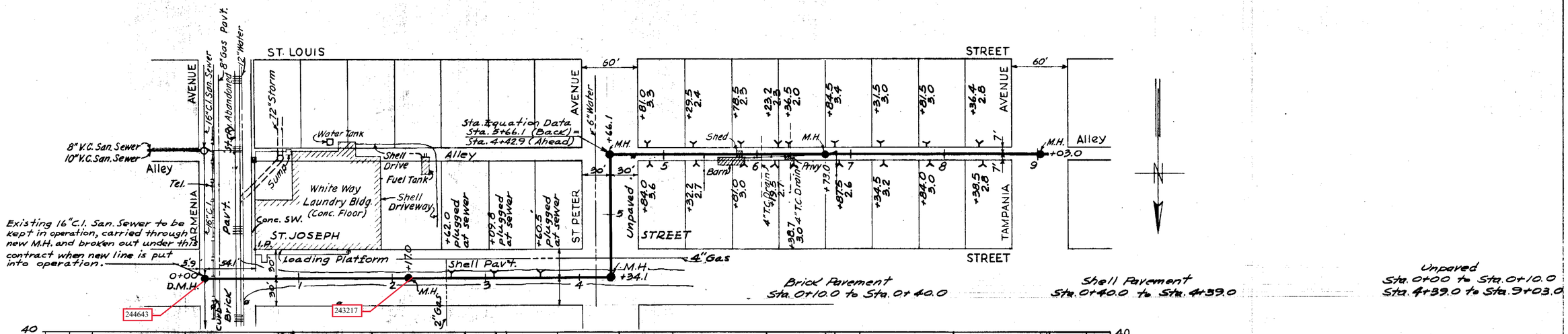
CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS
DIVISION E11

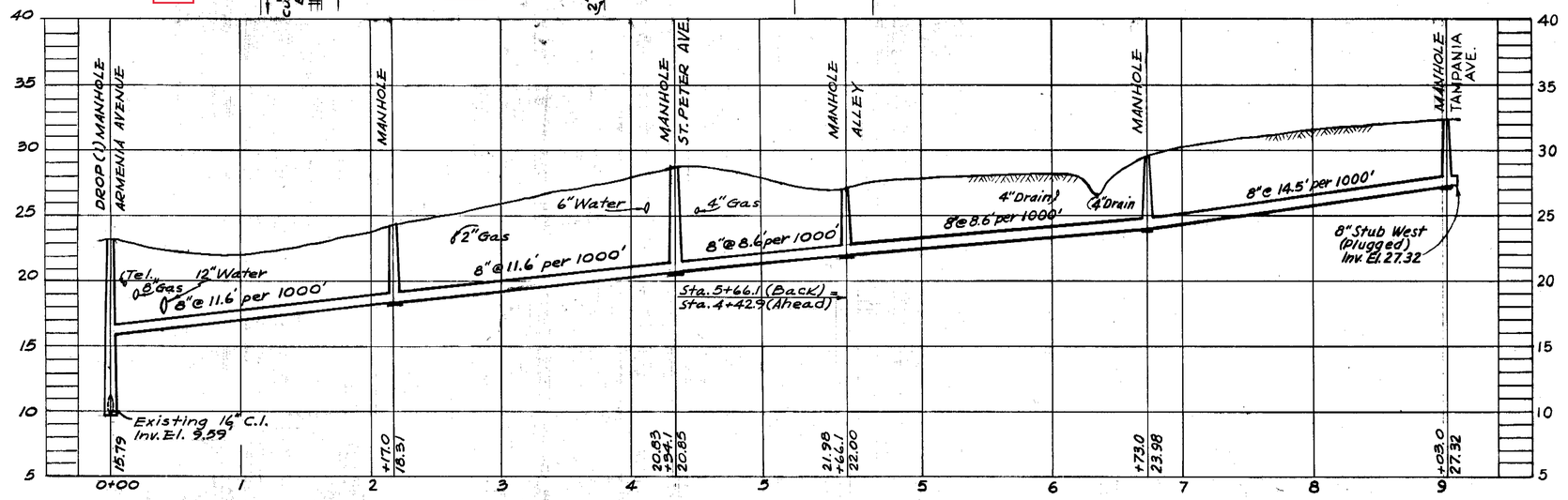
G-3, G-3-A & G-4

DES: L.A.B.
DR: J.W.H.
CKD: W.W.S.
DATE
MAY 1950

SCALE:
50 0 50 100 1"= 50'

SHEET
E11-22
OF 44





Note: Portion of Gx-1 from Sta. 0+00 to Sta. 5+66.1 drawn in accordance with Dwg. E11-SD-1

NOTE:
Owner moved Buildings out of Alley

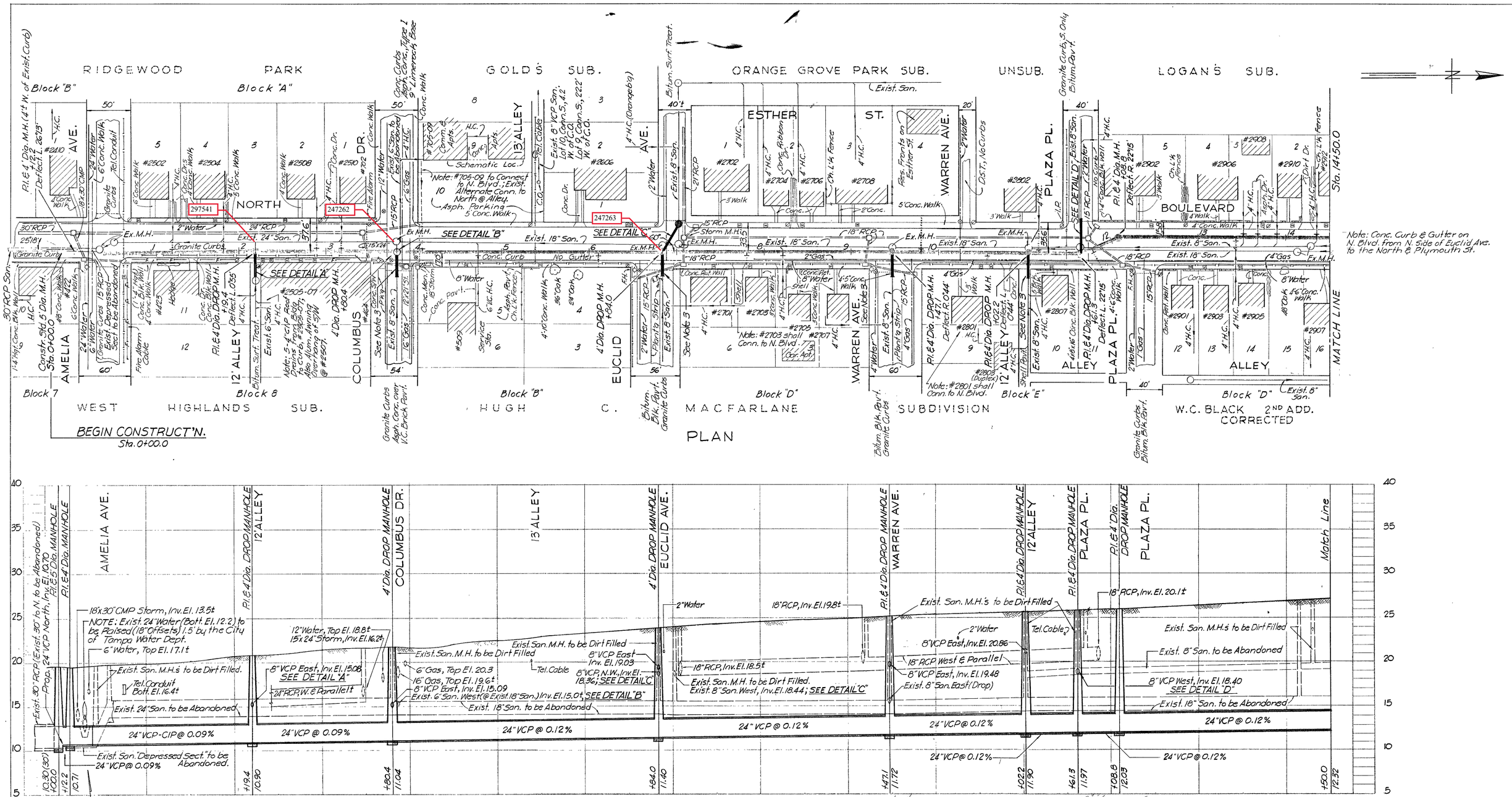
GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

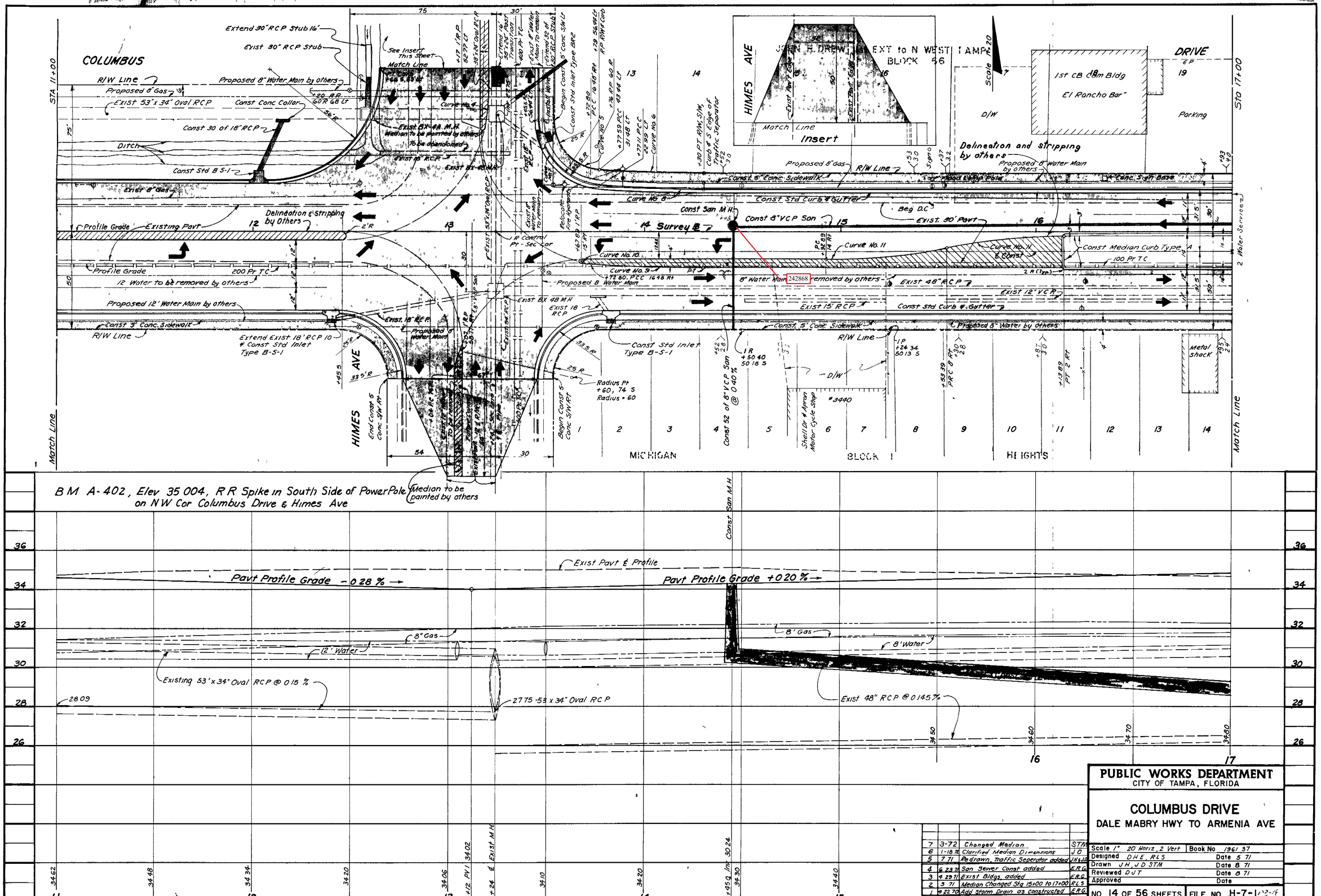
AS-BUILT PLAN
Revised to show actual conditions according to construction records as of Apr. 22, 1952. (J.J.S. 6-21-52)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS
DIVISION E11
Gx-1

DES: L.A.B.
DR: J.W.H.
CKD: W.W.S.
DATE: MAY 1950
SCALE: 50 0 50 100 1" = 50'
SHEET E11-23 OF 44

51-20


RIDGEWOOD PARK
Block "B"
Block "A"
GOLD'S SUB.
ORANGE GROVE PARK SUB.
UNSUB.
LOGAN'S SUB.
AMELIA AVE.
NORTH BOULEVARD
ESTHER ST.
WARREN AVE.
PLAZA PL.
COLUMBUS DR.
EUCLID AVE.
13' ALLEY
12' ALLEY
297541
247262
247263
SEE DETAIL "A"
SEE DETAIL "B"
SEE DETAIL "C"
Note: #706-08 to Connect to N. Blvd.; Exist. 10 Alternate Conn. to North @ Alley.
Note: #2703 shall Conn. to N. Blvd.
Note: #2801 shall Conn. to N. Blvd.
#2808 (Duplex)
Exist. 8" VCP San. Lot 10, Conn. S. 42' W. of C.O.
Lot 9, Conn. S. 222' W. of C.O.
Exist. 8" San.
Exist. 18" San.
Exist. 24" San.
Exist. 15" RCP
Exist. 18" RCP
Exist. 21" RCP
Exist. 4' Dia. DROP M.H. #804.0
Exist. 4' Dia. DROP M.H. #784.0
Exist. 4' Dia. DROP M.H. #2705-07
Exist. 4' Dia. DROP M.H. #2801
Exist. 4' Dia. DROP M.H. #2807
Exist. 4' Dia. DROP M.H. #2907
Exist. 6" Water
Exist. 8" Water
Exist. 2" Water
Exist. 4" Gas
Exist. 16" Gas
Exist. 18" Gas
Exist. 6" Gas
Exist. 8" Gas
Exist. 2" Gas
Exist. Tel. Cable
Exist. Tel. Conduit
Exist. Fire Alarm Cable
Exist. Ch. L.F. Fence
Exist. Conc. Curb & Gutter
Exist. Conc. Walk
Exist. Granite Curb
Exist. Granite Curbs
Exist. Conc. Curbs
Exist. Asph. Pav't.
Exist. Bit. Surf. Treat.
Exist. Conc. Pav't.
Exist. Conc. Bat. Wall
Exist. Conc. Blk. Wall
Exist. Conc. Ret. Wall
Exist. Granite Curb & Conc. Walk
Exist. Depressed Sect. to be Abandoned
Exist. Planting Strip
Exist. Service Sta.
Exist. Apts.
Exist. Duplex
Exist. Gar. Apt.
Exist. Bldg.
Exist. Fire Hydrant
Exist. Storm M.H.
Exist. Men. #835
Exist. Ex. M.H.
Exist. Ex. Inlet
Exist. Ex. Catch Basin
Exist. Ex. Curb Inlet
Exist. Ex. Drop Inlet
Exist. Ex. Gas Valve
Exist. Ex. Water Valve
Exist. Ex. Water Meter
Exist. Ex. Fire Hydrant
Exist. Ex. Light Standard
Exist. Ex. Power Pole
Exist. Ex. Guy Anchor
Exist. Ex. Tel. Pedestal
Exist. Ex. Tel. Manhole
Exist. Ex. Tel. Riser
Exist. Ex. Tel. Cable
Exist. Ex. Tel. Conduit
Exist. Ex. Tel. Booth
Exist. Ex. Tel. Pole
Exist. Ex. Tel



BM A-402, Elev 35.004, RR Spike in South Side of Power Pole on NW Cor Columbus Drive & Himes Ave

No.	Date	REVISION	By
7	3-72	Changed Median	STM
6	1-18-72	Clarified Median Dimensions	J.O.
5	7-71	Redrawn, Traffic Seperator added	JH & JD
4	6-23-71	San Sewer Const added	E.R.G.
3	4-29-71	Exist Bldgs. added	E.R.G.
2	3-71	Median Changed Sta 15+00 to 17+00	R.L.S.
1	4-22-70	Add Storm Drain as constructed	E.R.G.

PUBLIC WORKS DEPARTMENT
CITY OF TAMPA, FLORIDA

COLUMBUS DRIVE
DALE MABRY HWY TO ARMENIA AVE

Scale 1" 20 Horiz, 2 Vert	Book No 1961 37
Designed D.H.E., R.L.S.	Date 5-71
Drawn J.H., J.D. STM	Date 8-71
Reviewed D.J.T.	Date 8-71
Approved	Date
NO 14 OF 56 SHEETS	FILE NO H-7-1[illegible]

COLUMBUS DRIVE EAST EXTENSION TO NORTH WEST TAMPA

Scale 1" = 20'

Block Hardware 21 #3405 · Store 22 · Restaurant #3409 20 · Parking · Auto Shop #3420 · Asphalt · Work · Shop · #3402 Relocate Fire Hydrant · #3388 Restaurant · #3320 · Asph Parking · Park ng · Bldg #3339 · Dirt Dr · Glen Ave · Michigan Ave · Block 47 · Block 2 · Block 1 · Delineation & Stripping by Others · DRIVE

Proposed 8" Water Main by others · Proposed 8" Water Main by others · Proposed 8" Water Main by others · Proposed 8" Gas · Proposed 8" Gas · Exist 8" Gas Inlets to be Removed · Const 8" Gas · Exist 30 Pavt · Exist 27" RCP · Exist 18" RCP · Exist 48" RCP · Exist 8" Water Main to be removed by others · 8" Water Main to be removed by others · Exist 8" Water Main to be removed by others · Exist 18" RCP

Const Median Curb Type A · Const Median Curb Type A · Const Sidewalk · Const Curb & Gutter · Const 8" Conc Collar · Const 8" Conc Collar · Const 8" Conc Collar

JOHN H. DREW 1st. EXTENSION TO N.W. TAMPA

NEWNAN SUB.

BLOCK 47

COLUMBUS DRIVE

LINCOLN AVE.

MICHIGAN HEIGHTS

BLOCK 2

BLOCKK 5 GHIRA SUB

Delineating & Stripping by Others

Proposed 8" Water Main by others

Const. Std. Inlet Type B-R-1 Asp Apron

Extend Exist. 18" R.C.P. 18'

Const. Std. Inlet Type B-R-1

Asp. Apron

Proposed 8" Water Main by others

Const. Sta. Curb & Gutter

Exist. 8" Gas

Exist. 30 Cont.

Const Median Curb, Type "A"

Asp. Dr.

Remove Exist. Inlet & Grate

Replace with Const. Std. Inlet Type B-S-1

Const. Std. Inlet Type B-S-1

Relocate Fire Hydrant By Others

Pump Island

Proposed 8" Water Main by others

Curve No. 16

Curve No. 17

Curve No. 19

Survey ℄

Don Tucker Bar B.Q.

Parking

Chain Link

Metal Sign Posts

Pavt ℄ Grade +0.40%

Pavt ℄ Grade -0.32%

Pavt ℄ Grade +0.34%

Exist. 27" R.C.P. @ 0.11%

8" Gas

8" Water

Const. Sanitary M.H.

Exist. Pavt ℄ Profile

B.M. A-399, Elev. 36.313 ⊞ on S.E. Cor. of Conc. Island on N.W. Cor. of Lincoln & Columbus Dr. at Cities Service Station.

No.	Date	REVISION	By
6	3-72	Median is Changed	J.D.
5	1-18-72	Clarified "Median Drainage"	J.D.
4	6-29-71	San. S. Cl'mnth. Deleted	J.D.
3	4-30-71	Exist. Bldgs Added	E.R.G.
2	3/71	Median Changed Sta. 23+00 to 25+00	R.L.S.
1	4-22-70	Add Storm Drainage as Constructed	E.R.G.

PUBLIC WORKS DEPARTMENT
CITY OF TAMPA, FLORIDA

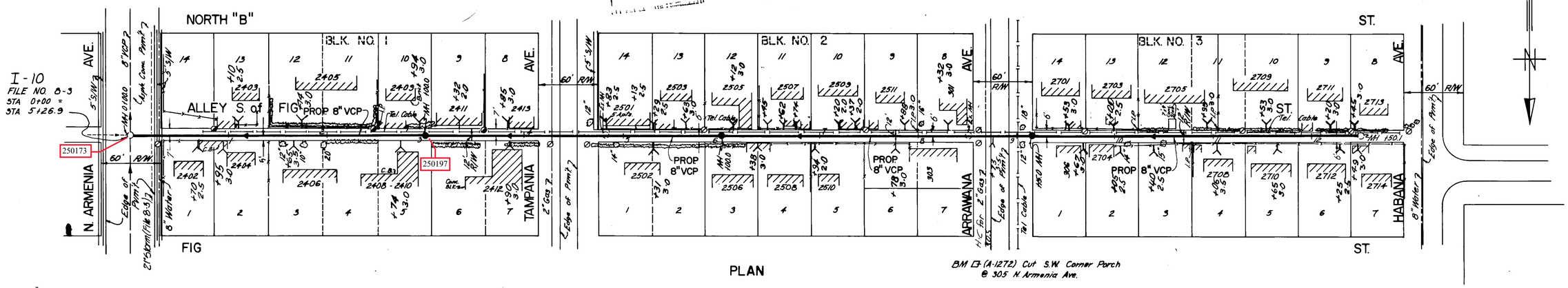
COLUMBUS DRIVE

DALE MABRY HWY. TO ARMENIA AVE.

Designed: D.H.E. Date:
Drawn: D.H.E. Date:
Checked: C.U. Date: 6-71
Reviewed: D.T. Date: 6-71
Approved: Date:
Scale: 1"=2' Ver., 1"=20' Hor.
FIELD BOOK: 1961-37
PROJECT No. H-7-1
SHEET 16 of 56

PLAN — PROFILE
SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, STRUCTURES DETAILED, QUANTITIES CHECKED
BY: H.E.E.
DATE: 4-22
NO. 1961-37

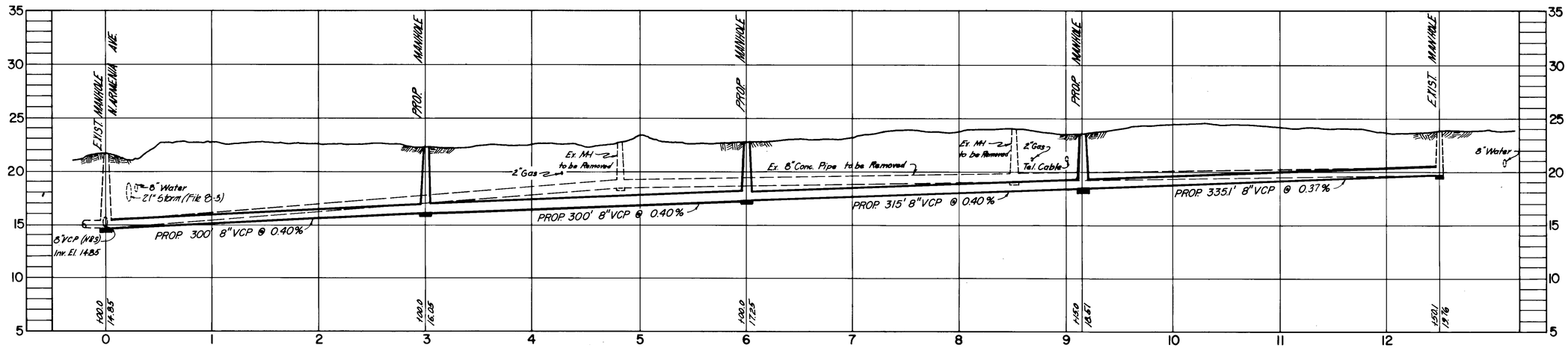
SEWER LINE LOCATION
TERRA NOYA (REV)



PLAN

BM ☐ (A-1272) Cut S.W. Corner Porch @ 305 N. Armenia Ave.

Note: All Residences Are Wood Frame Unless Otherwise Indicated. All Fences Are Chain Link Unless Otherwise Indicated.



PROFILE
WO 7750

Note

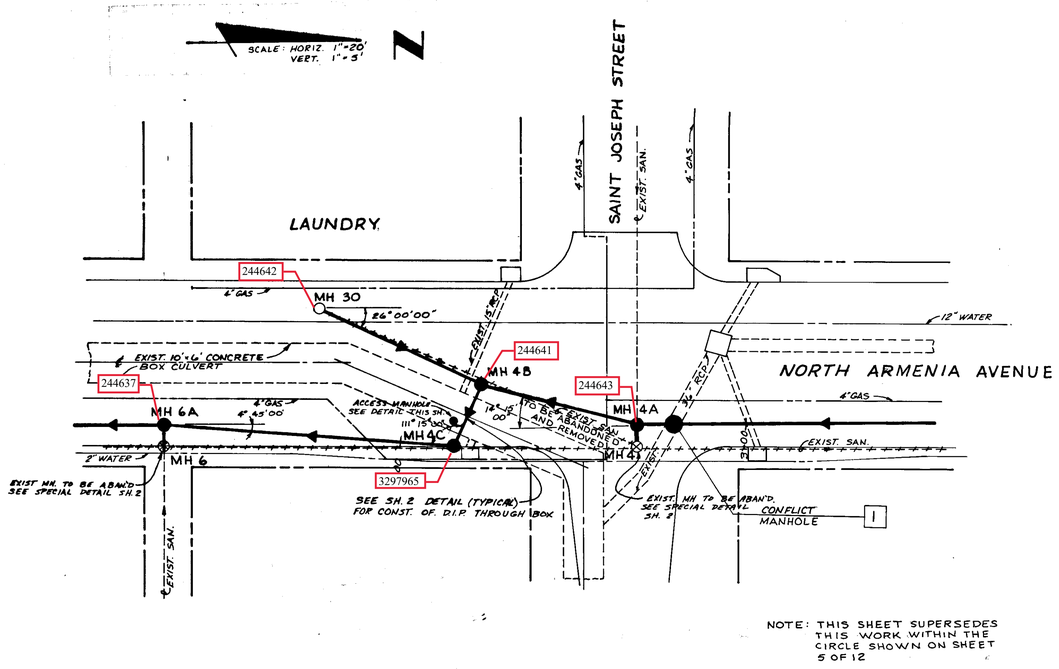
1. House Connection Locations Shown Are Based on Connection Card Information Dating to 1926. Connection Locations to the Replacement Sewer Should be Determined in the Field. Lots showing no house connections have no available information showing location. Actual location will have to be determined in the field.

SEWER LINE LOCATION

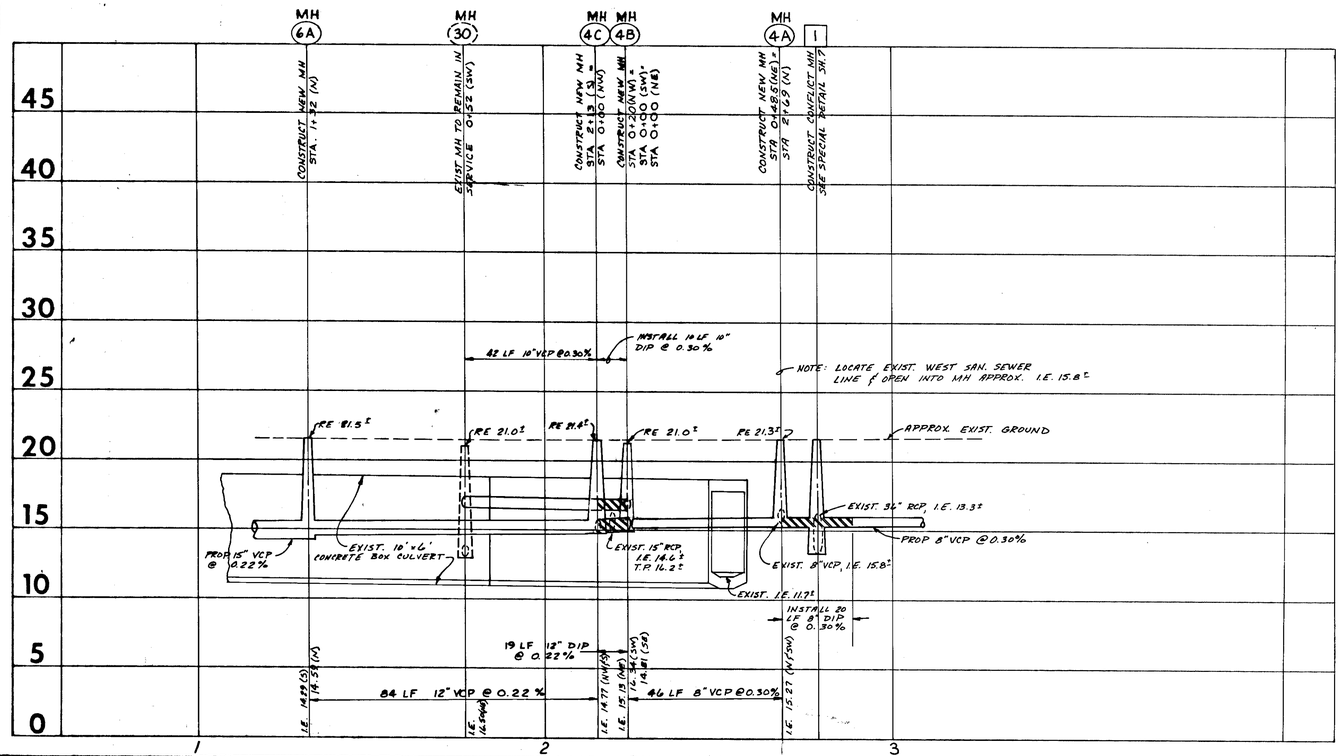
SEC. MAP NO.	LINE NO.
I-10	112

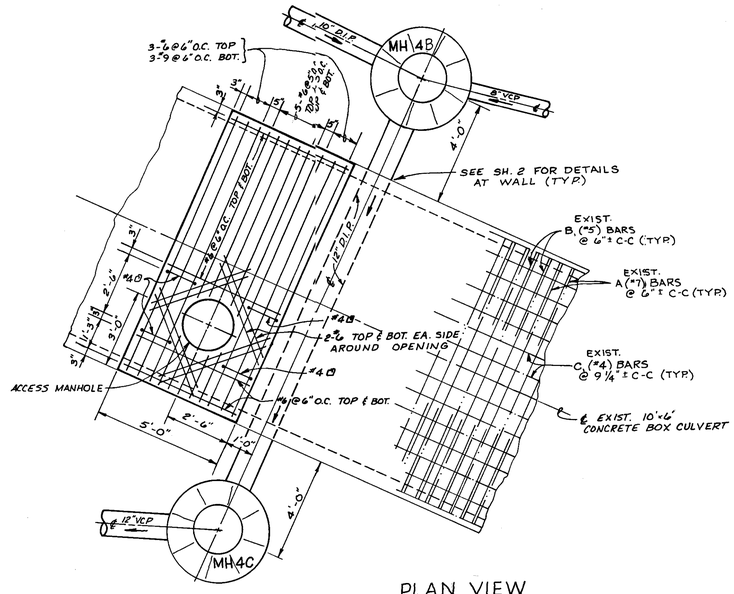
H.C. Plotted 5/23/77 JR

	DES: JPM DRN: EB CKD: M.J.A. DATE: SEPT. 1976	APPROVED BY J.W. SILLIMAN, P.E., DIRECTOR DEPARTMENT of SANITARY SEWERS	№ 1 2 3 4 5	DATE	REVISIONS	SCALE 50 0 50 100 1" = 50'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA RENEWAL & REPLACEMENT SEWER IMPROVEMENT	ALLEY S. of FIG ST.: N. ARMENIA AVE. to HABANA AVE.	SHEET OF 139-45

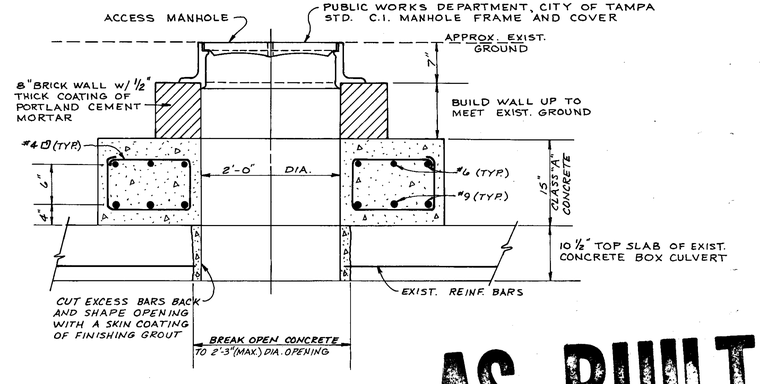


NOTE: THIS SHEET SUPERSEDES THIS WORK WITHIN THE CIRCLE SHOWN ON SHEET 5 OF 12





PLAN VIEW
SCALE: 3/8" = 1'-0"



SECTION VIEW
SCALE: 1" = 1'-0"

AS BUILT
Manhole Locations 1-13-79 C.V.

CONFLICT CROSSING, BOX CULVERT, AND ACCESS MANHOLE

Dean F. Coburn, P.E.
No. 19120
POST, BUCKLEY, SCHUH & JERNIGAN, INC.

W.O. 5410

DESIGN	E.F.P.
DRAWN	E.F.P.
CHECKED	D.F.C.
DATE	JAN. 12, 1979

P B S J POST, BUCKLEY, SCHUH & JERNIGAN, INC.

Elton G. Smith, P.E., No. 19872
CHIEF ENGINEER
DEPT. OF SANITARY SEWERS

Approved By:
J.W. Silliman, P.E., Director
DEPT. OF SANITARY SEWERS

No	DATE	REVISION
6		
5		
4		
3		
2		
1		

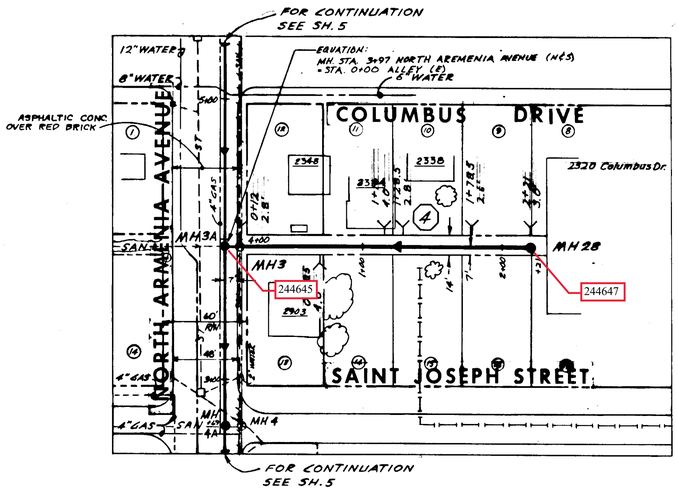
0 25' 50' 75' 100'
GRAPHIC SCALE IN FEET (AS SHOWN)

DEPARTMENT OF SANITARY SEWERS
CITY OF TAMPA, FLORIDA
NORTH ARMENIA AVENUE SANITARY SEWER
CONFLICT CROSSING DETAILS

SHEET SUPPLEMENTAL OF 1A

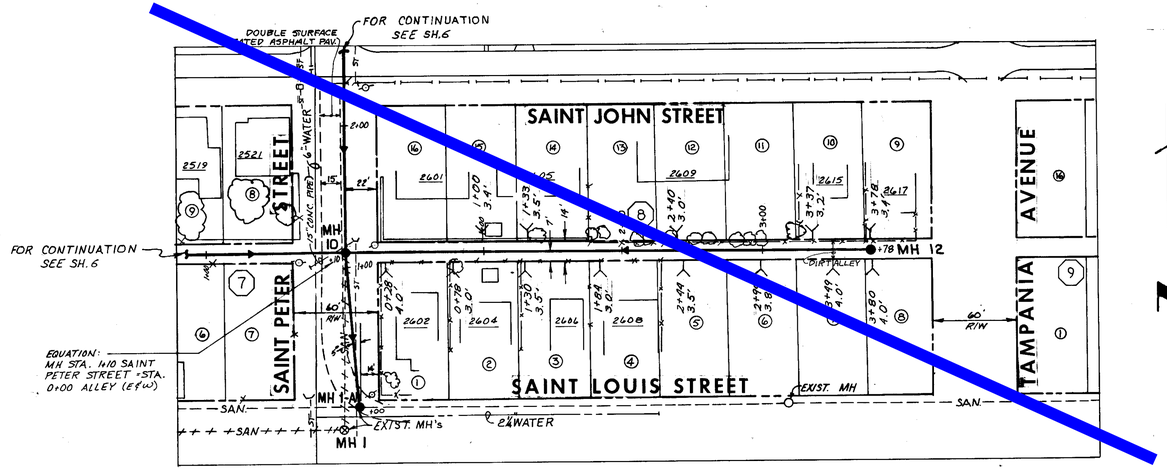
150-2

BOUTON & SKINNER
ADD TO W. TAMPA



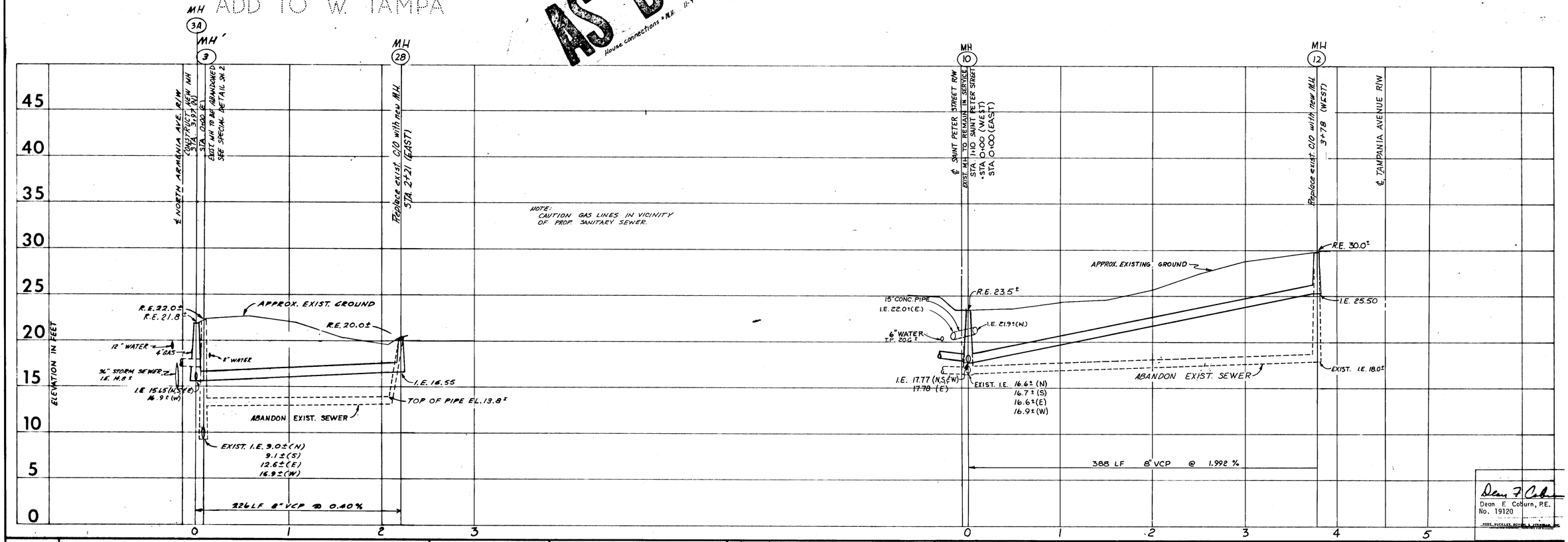
BOUTON & SKINNER
ADD TO W. TAMPA

VILLA ST LOUIS



VILLA ST LOUIS

AS BUILT
House connections • M.H. 11-9-79 C.V.



Dean F. Coburn, P.E.
No. 19120

DESIGN	E.L.
DRAWN	E.F.P.
CHECKED	D. COBURN
DATE	MARCH, 1978

P B S J POST, BUCKLEY, SCHUH & JERNIGAN, INC.

Elton G. Smith, P.E., № 19872
CHIEF ENGINEER
DEPT. OF SANITARY SEWERS

Approved By:
J.W. Silliman, P.E., Director
DEPT. OF SANITARY SEWERS

№	DATE	REVISION
6		
5		
4		
3		
2		
1	8-1-78	ADDITION OF TRAVERSE STATIONING & FIELD DATA

GRAPHIC SCALE IN FEET (SCALE: 1" = 50')

DEPARTMENT OF SANITARY SEWERS
CITY OF TAMPA, FLORIDA
ALLEY SOUTH OF COLUMBUS DRIVE - EAST FROM [illegible]
ALLEY SOUTH OF SAINT LOUIS STREET - WEST FROM SAINT PETER STREET

SHEET 4 OF 12

150-5

VILLA ST. LOUIS

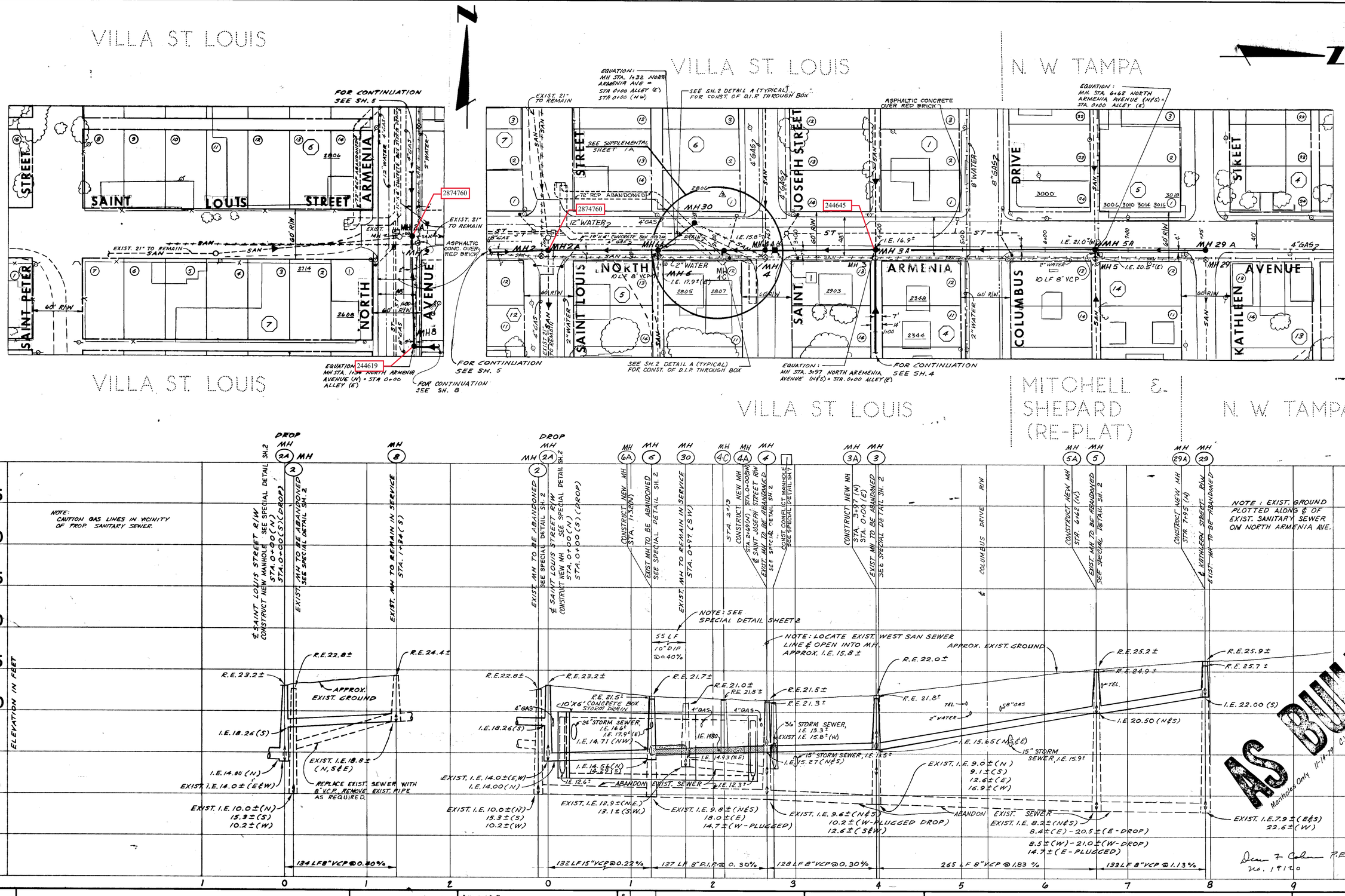
VILLA ST. LOUIS

VILLA ST. LOUIS

N. W TAMPA

MITCHELL & SHEPARD (RE-PLAT)

N. W TAMPA



AS BUILT
Manholes only 11-14-79 C.V.

Dan J. Coburn P.E. No. 19170

DESIGN	E.F.P.
DRAWN	W. TURNER
CHECKED	D. COBURN
DATE	MARCH, 1978

P B S J POST, BUCKLEY, SCHUH & JERNIGAN, INC.

Elton G. Smith, P.E., № 19872
CHIEF ENGINEER
DEPT. OF SANITARY SEWERS

Approved By:
J.W. Silliman, P.E., Director
DEPT. OF SANITARY SEWERS

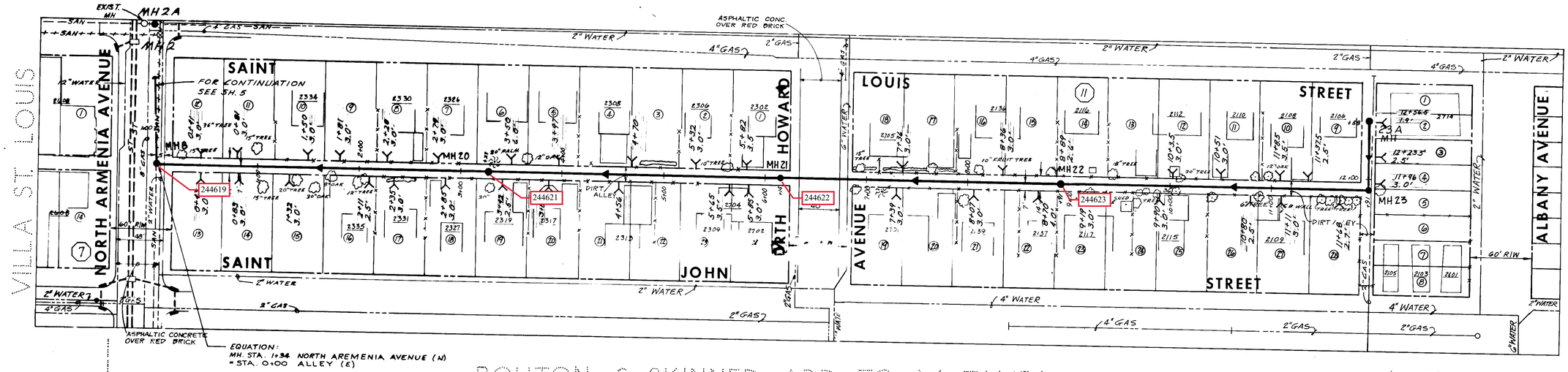
№	DATE	REVISION
6		
5		
4		SUPPLEMENT SHEET 1A
3	1-12-79	MODIFICATION OF BOX CULVERT CROSSING SEE
2	8-1-78	ADDITION OF CONFLICT MANHOLE
1	8-1-78	ADDITION OF TRAVERSE STATIONING & FIELD DATA

0 25' 50' 75' 100'
GRAPHIC SCALE IN FEET
(SCALE: 1"=50')

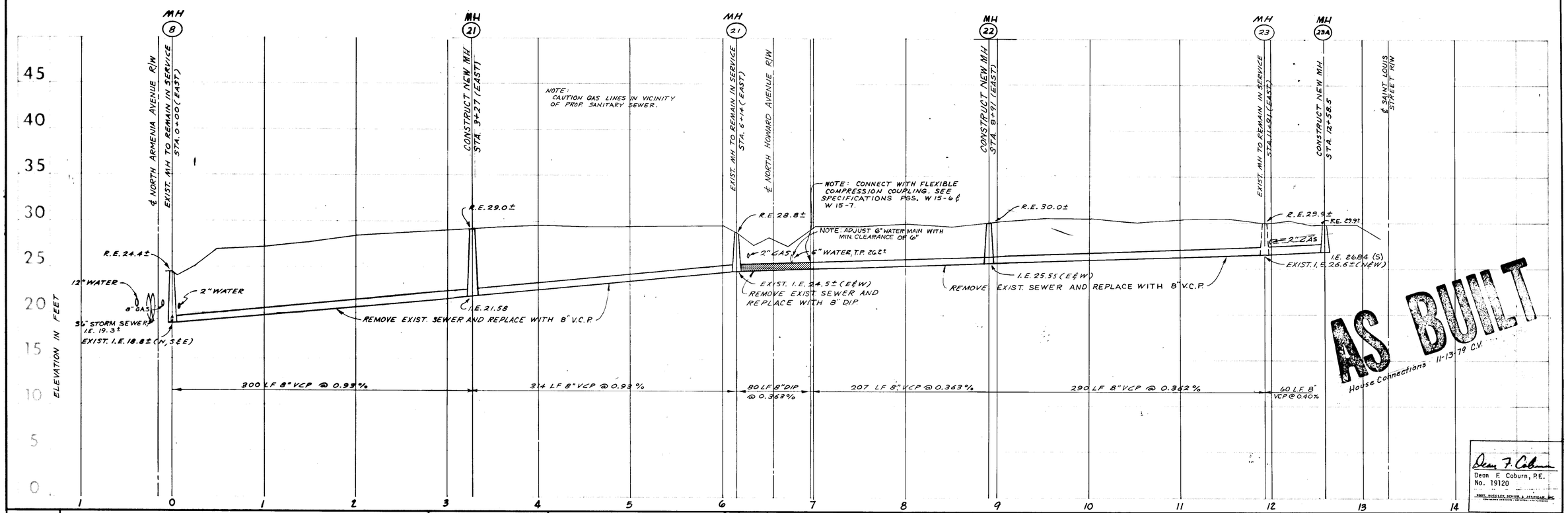
DEPARTMENT OF SANITARY SEWERS
CITY OF TAMPA, FLORIDA
NORTH ARMENIA AVENUE FROM ALLEY SOUTH OF SAINT LOUIS STREET TO KATHLEEN STREET

SHEET 5
150-6 OF 12

BOUTON & SKINNER ADD TO W. TAMPA



BOUTON & SKINNER ADD TO W. TAMPA



AS BUILT
House Connections 11-13-79 C.V.

Dean F. Coburn, P.E.
No. 19120
POST, BUCKLEY, SCHUH & JERNIGAN, INC.

DESIGN	E.F.P.
DRAWN	W. TURNER
CHECKED	D. COBURN
DATE	MARCH, 1978

POST, BUCKLEY, SCHUH & JERNIGAN, INC.

Elton G. Smith P.E., Nº 19872
CHIEF ENGINEER
DEPT. OF SANITARY SEWERS

Approved By:
J.W. Silliman, P.E., Director
DEPT. OF SANITARY SEWERS

Nº	DATE	REVISION
6		
5		
4		
3		
2		
1	8-1-78	ADDITION OF TRAVERSE STATIONING & FIELD DATA

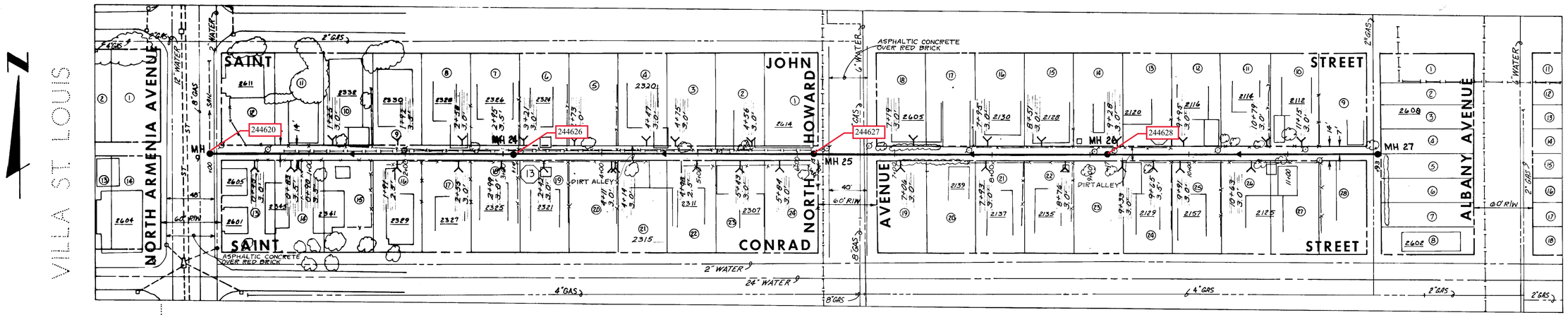
0 25' 50' 75' 100'
GRAPHIC SCALE IN FEET
(SCALE: 1"=50')

DEPARTMENT OF SANITARY SEWERS
CITY OF TAMPA, FLORIDA
ALLEY SOUTH OF SAINT LOUIS STREET-EAST FROM NORTH ARMENIA AVENUE

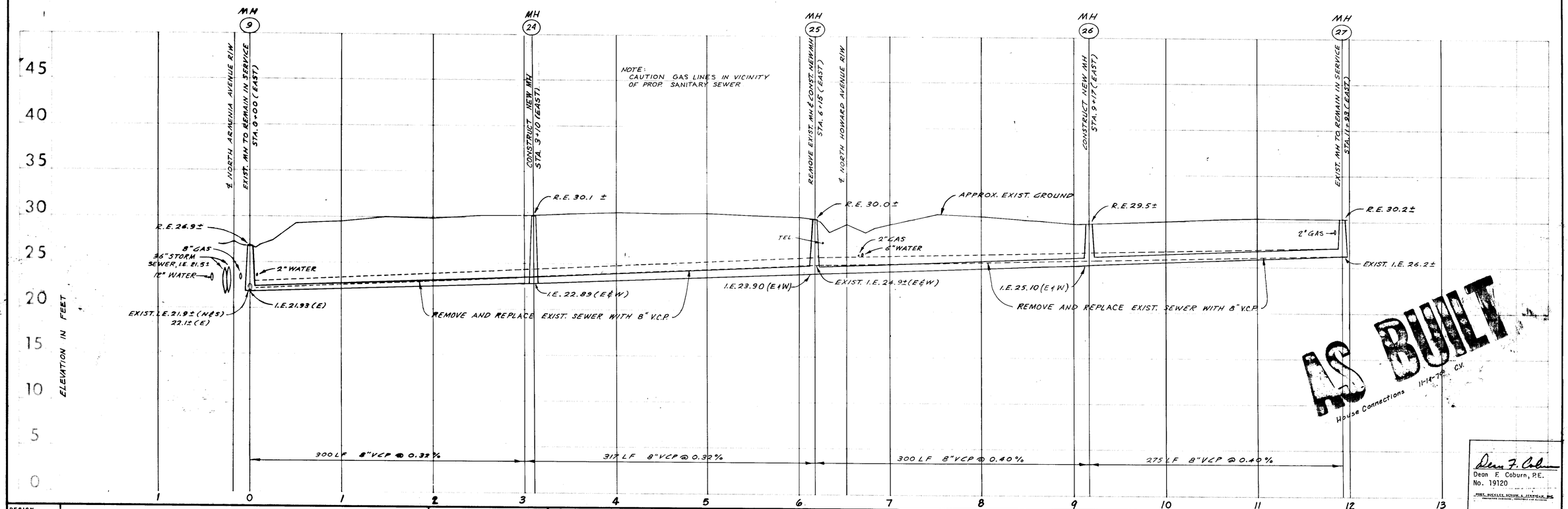
SHEET 8 OF 12

150-9

BOUTON & SKINNER ADD TO W. TAMPA



BOUTON & SKINNER ADD TO W. TAMPA



AS BUILT
House Connections 11-14-78 C.V.

Dean F. Coburn
Dean F. Coburn, P.E.
No. 19120
POST, BUCKLEY, SCHUH & JERNIGAN, INC.

DESIGN	E.F.P.
DRAWN	W. TURNER
CHECKED	D. COBURN
DATE	MARCH, 1978

P B S J — POST, BUCKLEY, SCHUH & JERNIGAN, INC.

Elton G. Smith, P.E., No 19872
CHIEF ENGINEER
DEPT. OF SANITARY SEWERS

Approved By:
J.W. Silliman, P.E., Director
DEPT. OF SANITARY SEWERS

No	DATE	REVISION
6		
5		
4		
3		
2		
1	8-1-78	ADDITION OF TRAVERSE STATIONING & FIELD DATA

0 25' 50' 75' 100'
GRAPHIC SCALE IN FEET
(SCALE : 1" = 50')

DEPARTMENT OF SANITARY SEWERS
CITY OF TAMPA, FLORIDA
ALLEY SOUTH OF SAINT JOHN STREET-EAST FROM NORTH ARMENIA AVENUE

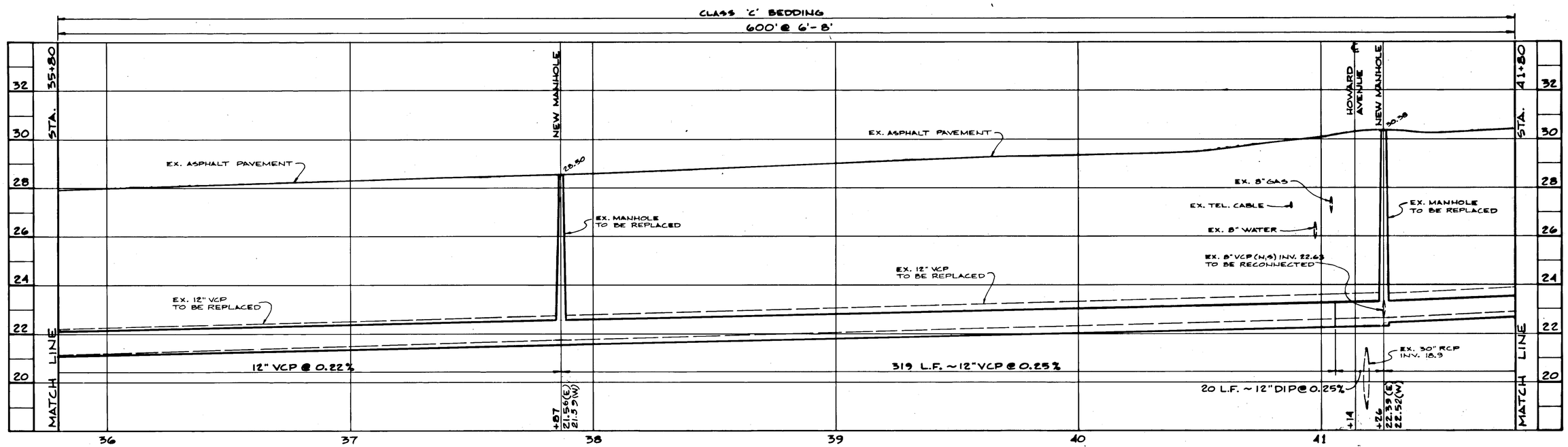
SHEET 9 OF 12

150-10



SPRUCE ST. AT HOWARD AVE.

PLAN

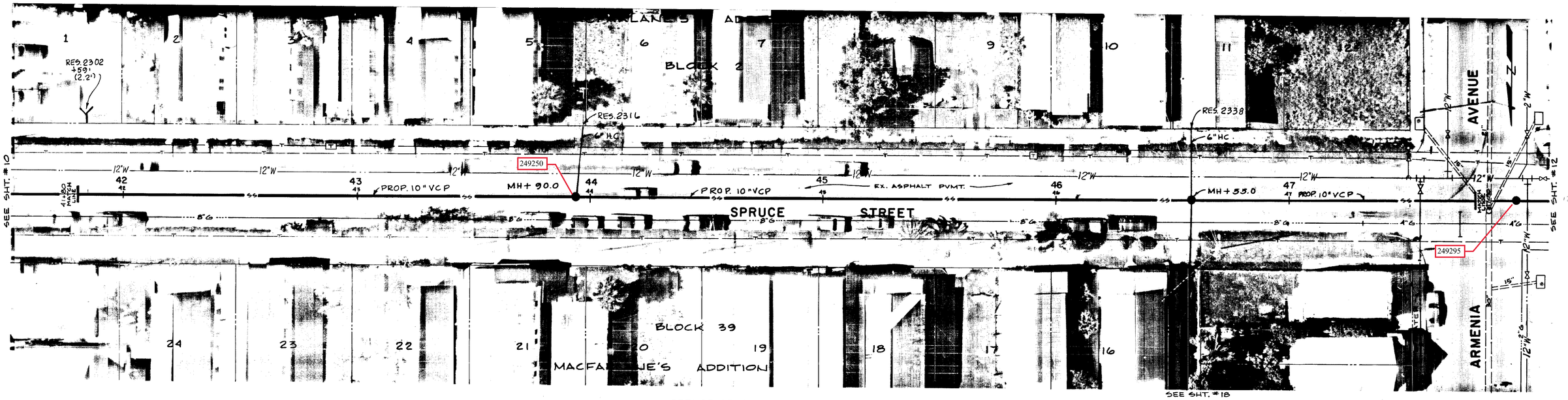


SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

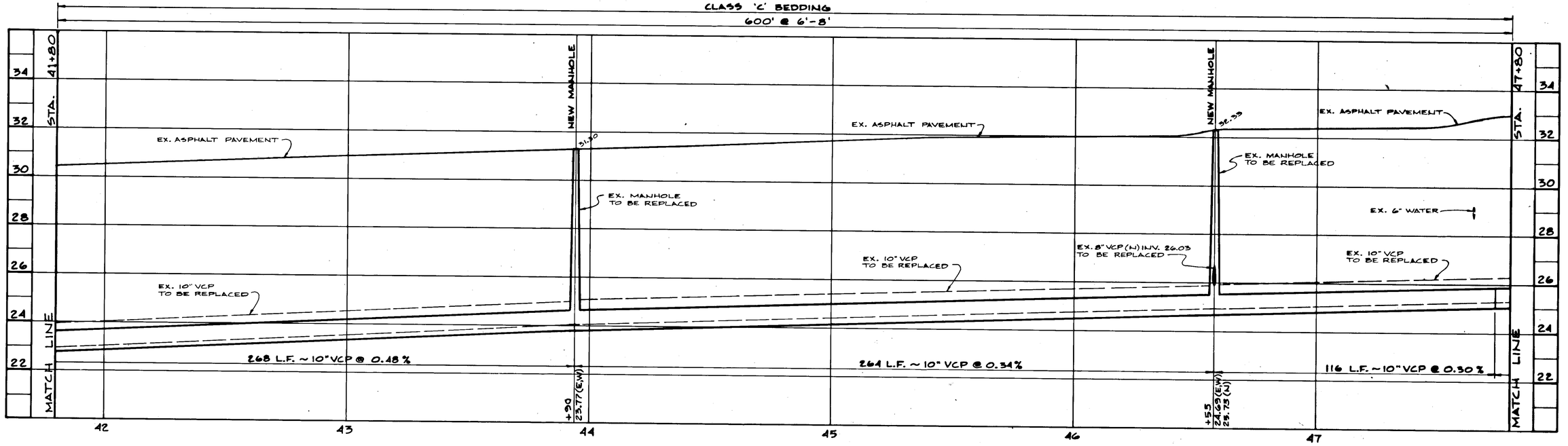
AS BUILT
CG 8-6-85

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. # 13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: ~~SEPT.~~ 83	APPROVED BY ELTON G. SMITH, P.E. DIRECTOR DEPARTMENT OF SANITARY SEWERS	NO DATE REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE SPRUCE ST. AT HOWARD AVE. STA. 35+80 to STA. 41+80	SHEET 10 OF 22 C181-34



SPRUCE ST. EAST OF ARMENIA AVE.

PLAN

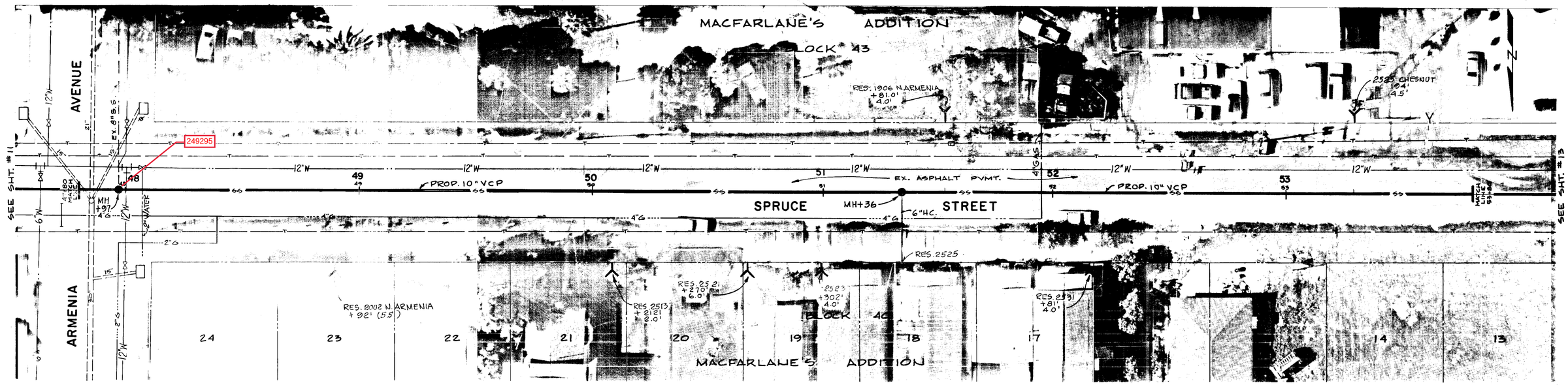


SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

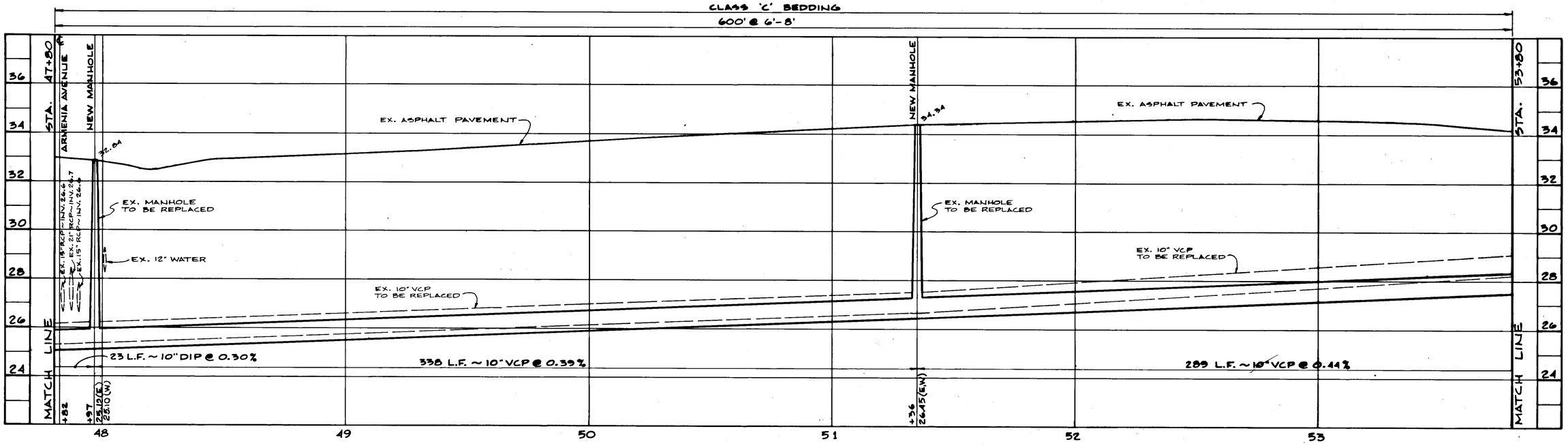
AS BUILT
8-6-85

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13788	DES. D.D.E. DRN. G.H.T. CKD. D.D.E DATE: SEPT. 85	APPROVED BY ELTON G. SMITH, P.E. DIRECTOR DEPARTMENT OF SANITARY SEWERS	No. / DATE / REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE SPRUCE ST. EAST OF ARMENIA AVE. STA. 41+80 to STA. 47+80 C181-35	SHEET 11 OF 22



SPRUCE ST. WEST OF ARMENIA AVE.

PLAN



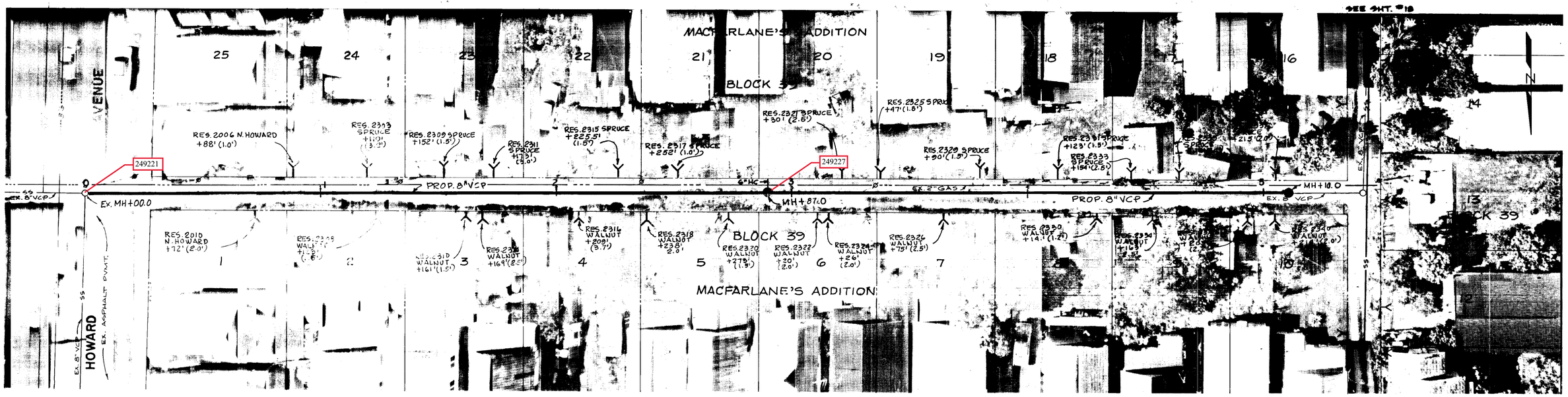
SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT

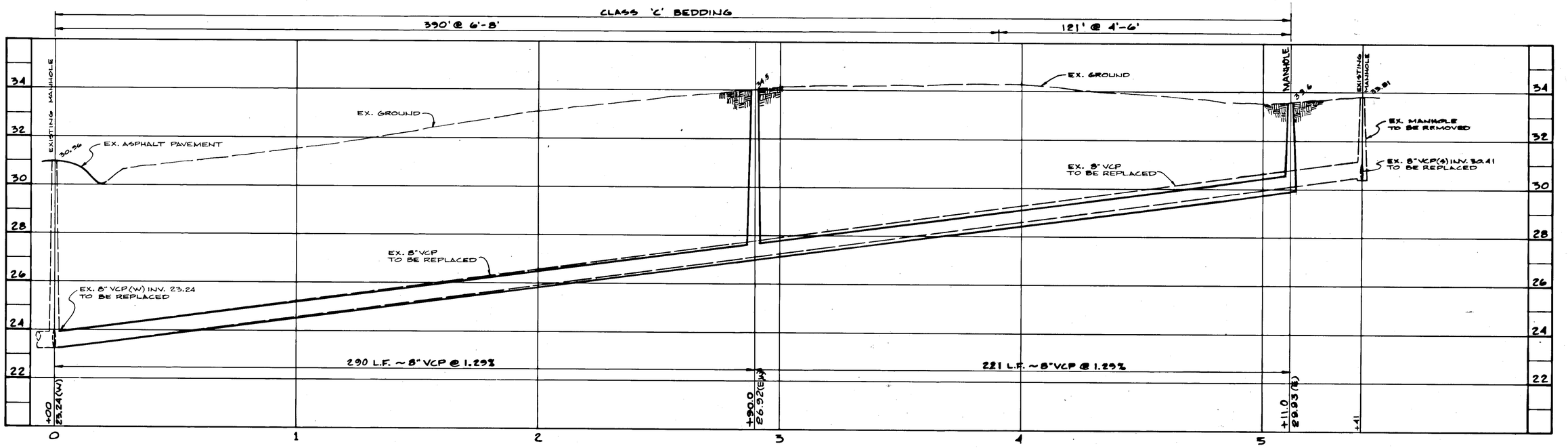
8-6-85

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: SEPT. 83	APPROVED BY. ELTON G. SMITH, P.E. DIRECTOR DEPARTMENT OF SANITARY SEWERS	NO / DATE / REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE SPRUCE ST. WEST OF ARMENIA AVE. STA. 47+80 to STA. 53+80 C181-36	SHEET 12 OF 22



ALLEY BETWEEN SPRUCE ST. AND WALNUT ST. WEST OF HOWARD AVE.

PLAN



SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
8-6-85

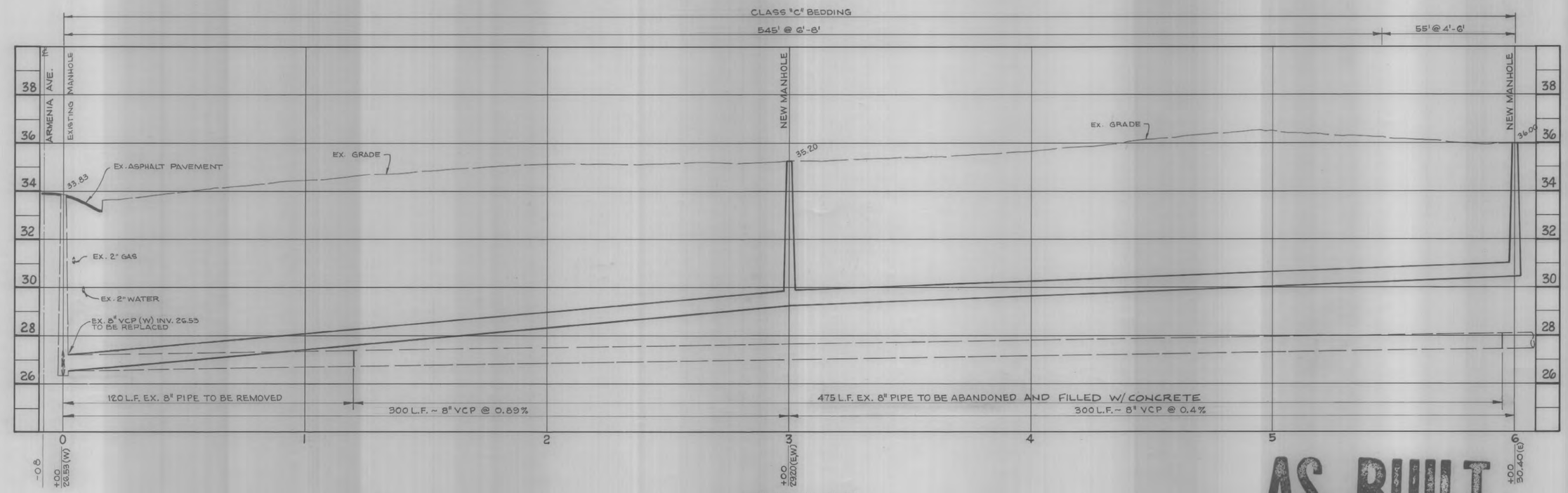
REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: SEPT. 83	APPROVED BY ELTON G. SMITH, P.E. DIRECTOR DEPARTMENT OF SANITARY SEWERS	NO / DATE / REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE ALLEY BETWEEN SPRUCE ST. & WALNUT ST. WEST OF HOWARD AVE. STA. 0+00 to STA. 4+85	SHEET 19 OF 22

C181-85



ALLEY BETWEEN UNION ST. AND CHESTNUT ST.
WEST OF ARMENIA AVE.

PLAN



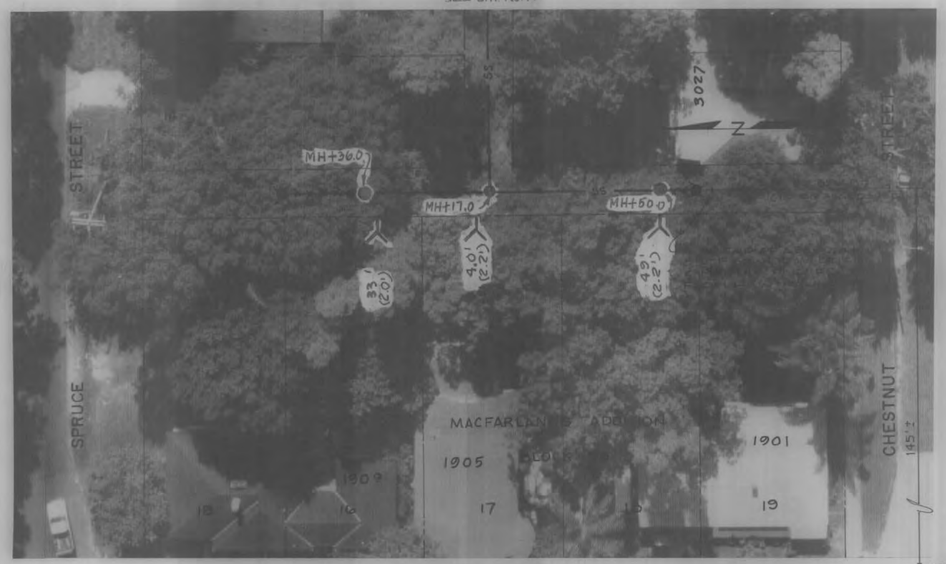
SCALE: HORIZONTAL - 1"= 20'
VERTICAL - 1"= 2'

PROFILE

AS BUILT
Eko 10-31-89

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. # 13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: OCT. 83	DEPARTMENT OF SANITARY SEWERS ELTON C. SMITH, DIRECTOR RALPH L. METCALF, II, CHIEF ENGINEER	No. DATE REVISIONS	SCALE 20 0 20 40 60 1"= 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE ALLEY BETWEEN UNION ST. & CHESTNUT ST. WEST OF ARMENIA AVE. STA. 0+00 to STA. 6+00	SHEET 11 OF 24

209-11



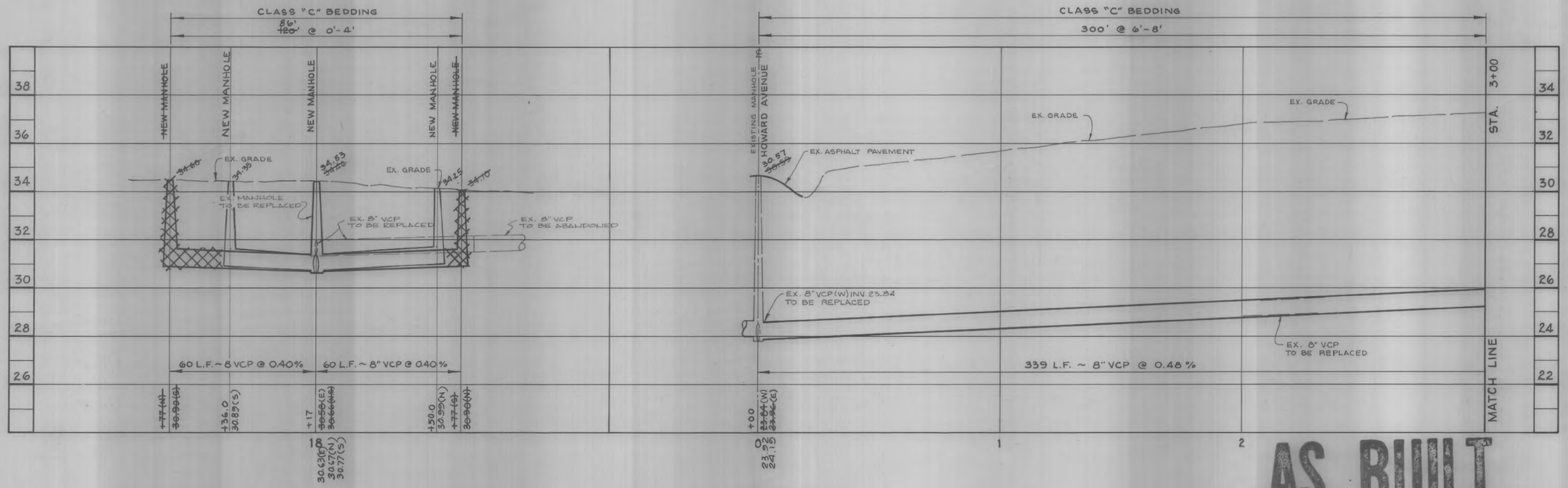
ALLEY BETWEEN SPRUCE ST. AND CHESTNUT ST.
NORTH OF CHESTNUT ST. AND EAST OF MACDILL AVE.

MACDILL AVE.



ALLEY BETWEEN WALNUT ST. AND PINE ST.
WEST OF HOWARD AVE.

PLAN



SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
Eb 10-31-84

PLAN & PROFILE

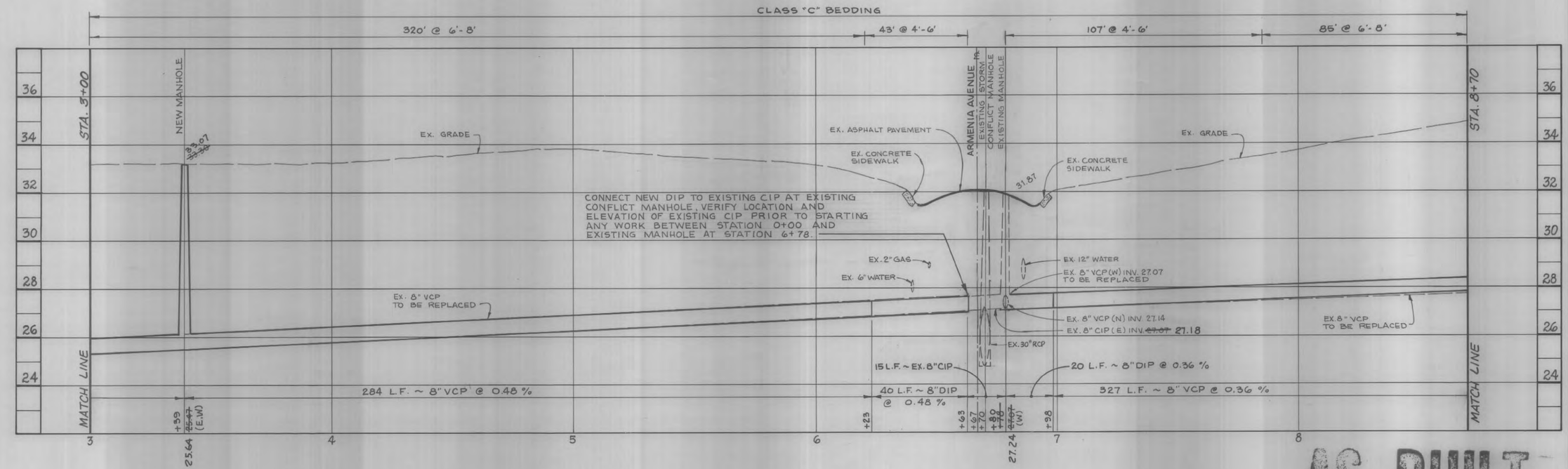
REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13788	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: OCT. 83	DEPARTMENT OF SANITARY SEWERS ELTON G. SMITH, DIRECTOR RALPH L. METCALF, II, CHIEF ENGINEER	No. DATE REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	ALLEY BETWEEN SPRUCE ST. & CHESTNUT ST. STA. 18+17 to STA. 18+77 NORTH STA. 18+17 to STA. 18+77 SOUTH ALLEY BETWEEN WALNUT ST. & PINE ST. STA. 0+00 to STA. 3+00	SHEET 15 OF 24

209-15



ALLEY BETWEEN WALNUT ST. AND PINE ST.
EAST & WEST OF ARMENIA AVE.

PLAN



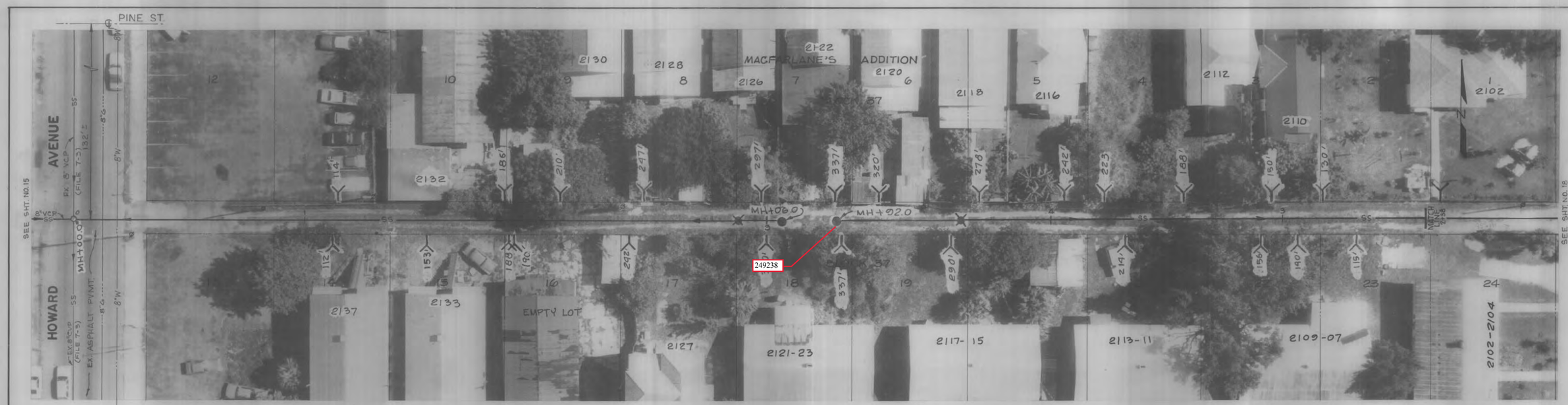
SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
EL 10-31-89

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. # 13768	DES. D.D.E. DRN. G.H.T. CKD. D.D.E. DATE: OCT. 83	DEPARTMENT OF SANITARY SEWERS ELTON G. SMITH, DIRECTOR RALPH L. METCALF, II, CHIEF ENGINEER	No. DATE REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE ALLEY BETWEEN WALNUT ST. AND PINE ST. EAST & WEST OF ARMENIA AVE. STA. 3+00 to STA. 8+70	SHEET 16 OF 24

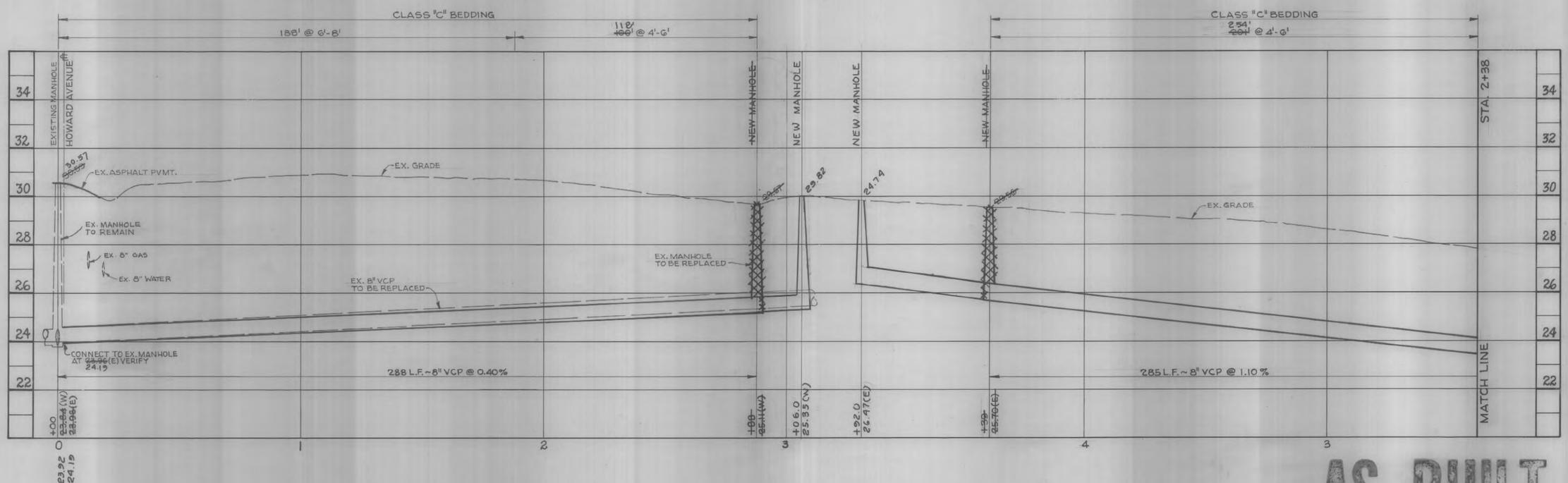
209-16



On line Water Valve
SE Corner of Howard & Walnut
Top EL. 8" W/L 27.60

ALLEY BETWEEN PINE ST. AND WALNUT ST.
EAST OF HOWARD AVE. AND WEST OF ALBANY AVE.

PLAN



SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
10-31-89

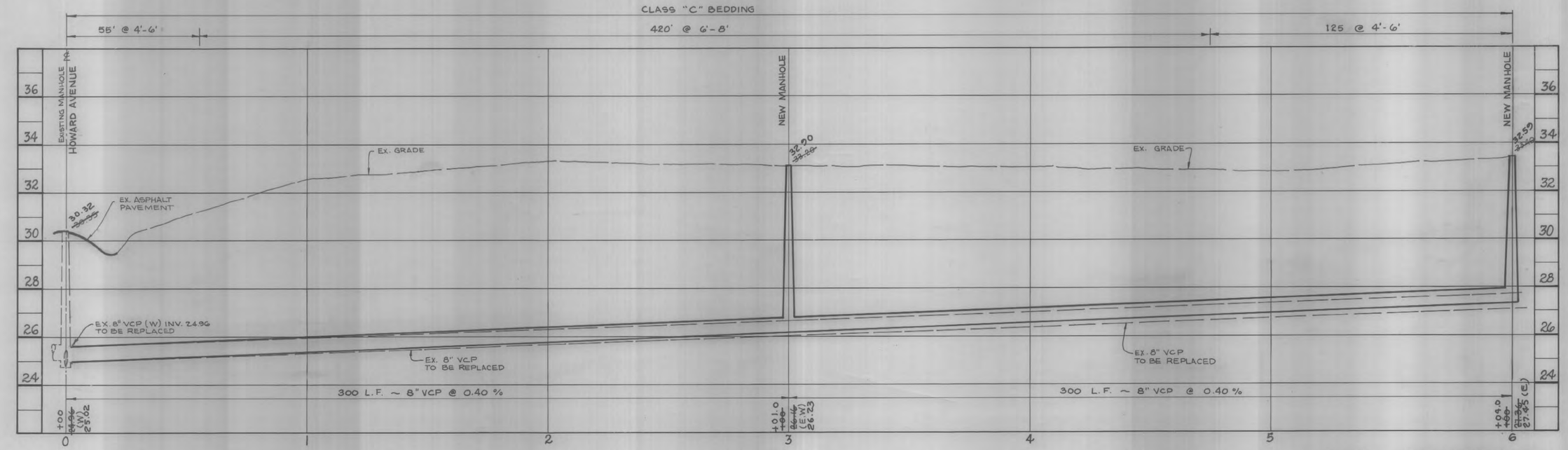
REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: OCT. 83	DEPARTMENT OF SANITARY SEWERS ELTON C. SMITH, DIRECTOR RALPH L. METCALF, II, CHIEF ENGINEER	No. DATE REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE ALLEY BETWEEN PINE ST. & WALNUT ST. EAST OF HOWARD AVE. – STA. 0+00 to STA. 2+88 WEST OF ALBANY AVE. – STA. 2+38 to STA. 4+39	SHEET 19 OF 24

209-19



ALLEY BETWEEN CHERRY ST. AND PINE ST.
WEST OF HOWARD AVE.

PLAN



SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
Elv 10-31-89

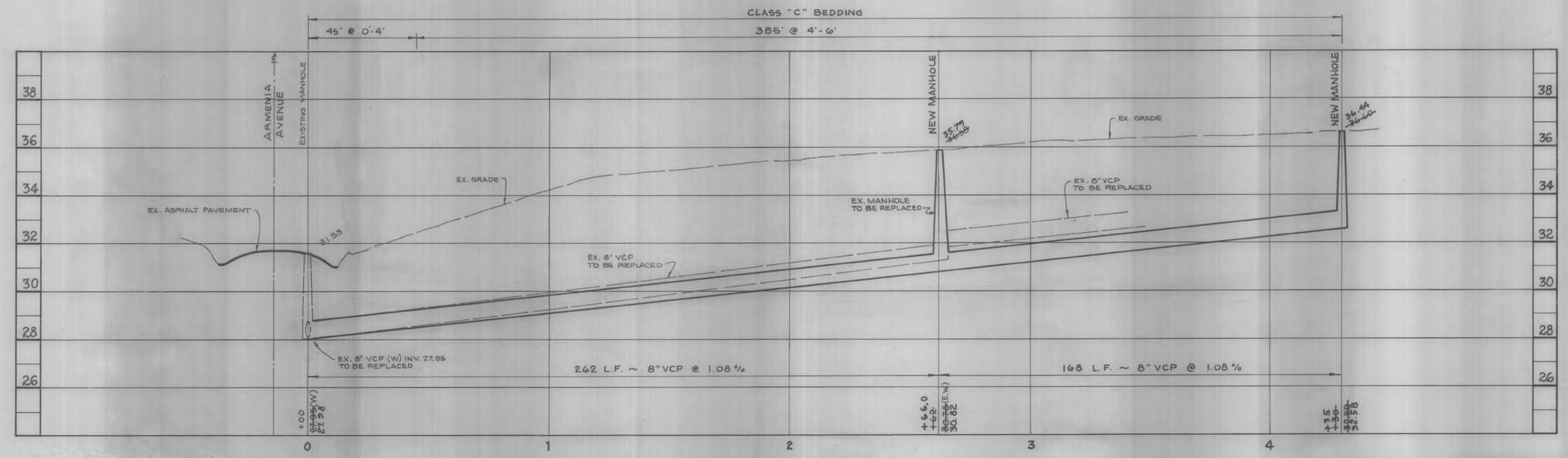
REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: OCT. 83	DEPARTMENT OF SANITARY SEWERS ELTON G. SMITH, DIRECTOR RALPH L. METCALF, II, CHIEF ENGINEER	№ DATE REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE ALLEY BETWEEN CHERRY ST. AND PINE ST. WEST OF HOWARD AVE STA. 0+00 to STA. 6+00	SHEET 20 OF 24

209-20



ALLEY BETWEEN PINE ST. AND CHERRY ST.
WEST OF ARMENIA AVE.

PLAN



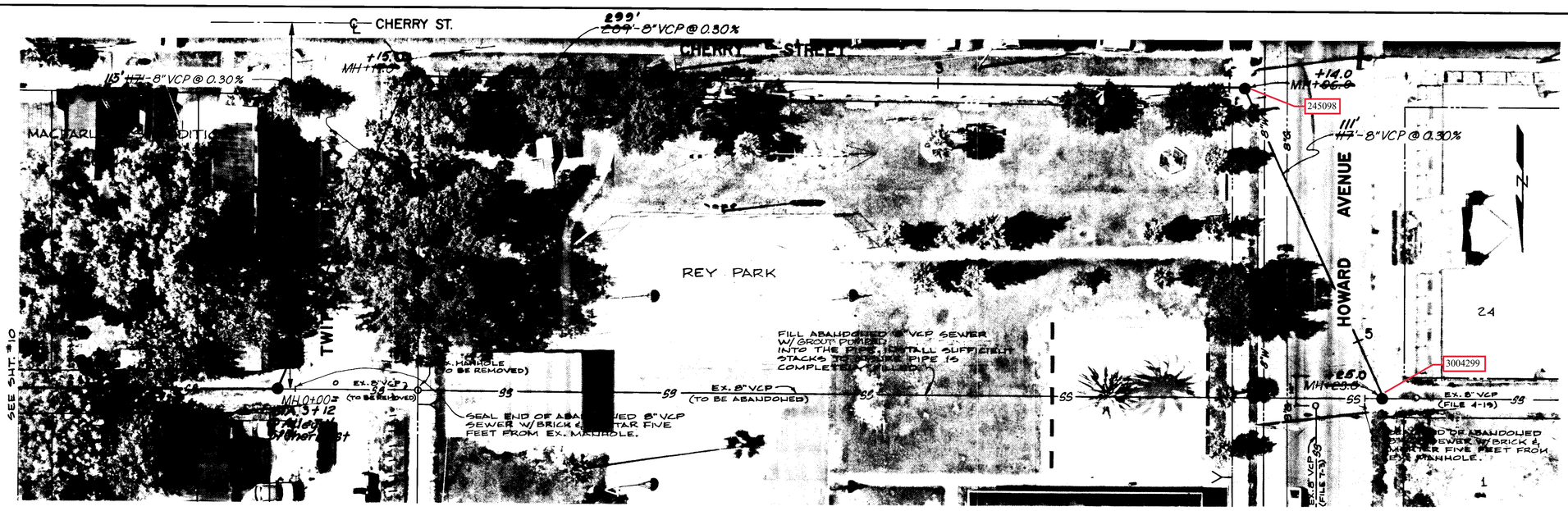
SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
EC 10-31-89

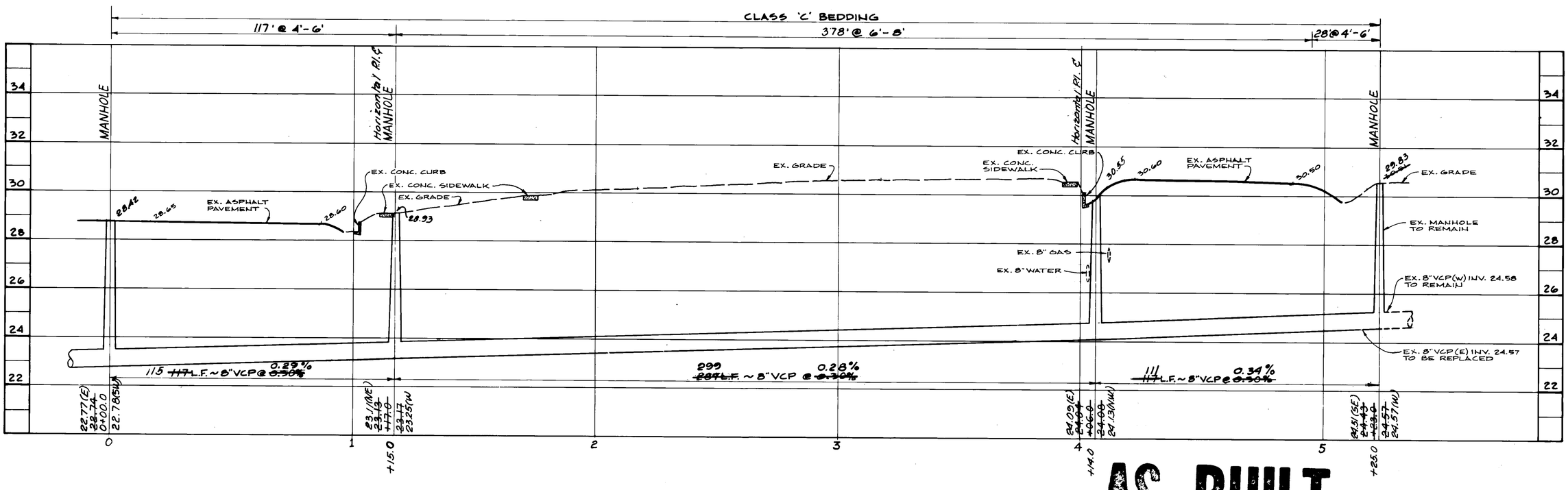
REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: OCT. 83	DEPARTMENT OF SANITARY SEWERS ELTON G. SMITH, DIRECTOR RALPH L. METCALF, II, CHIEF ENGINEER	NO. DATE REVISIONS	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE ALLEY BETWEEN PINE ST. AND CHERRY ST. WEST OF ARMENIA AVE. STA. 0+00 to STA. 4+30	SHEET 21 OF 24

209-21



REY PARK NORTH OF CHERRY ST.
BETWEEN TWITT ST. AND HOWARD AVE.

PLAN



SCALE: HORIZONTAL - 1"= 20'
VERTICAL - 1"= 2'

PROFILE

AS BUILT
Elo 5-18-87

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1985

DEPARTMENT OF SANITARY SEWERS
JACK B. MORRISS, P.E.
DIRECTOR
ANDREW T. CRONBERG, P.E. # 32560
CHIEF ENGINEER

NO	DATE	REVISIONS
1	4-8-86	Revise alignment around Rey Park.
2	5-18-87	As built by survey notes

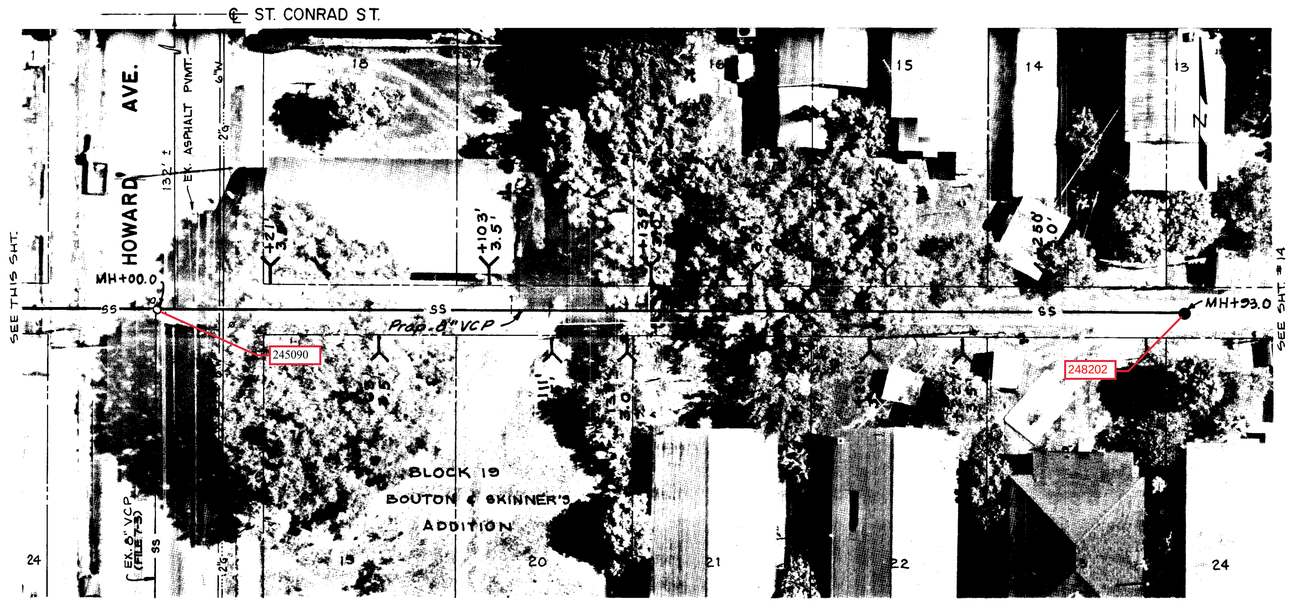
SCALE
20 0 20 40 60
1"= 20'

DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA
WEST TAMPA NEIGHBORHOOD SEWER PROJECT

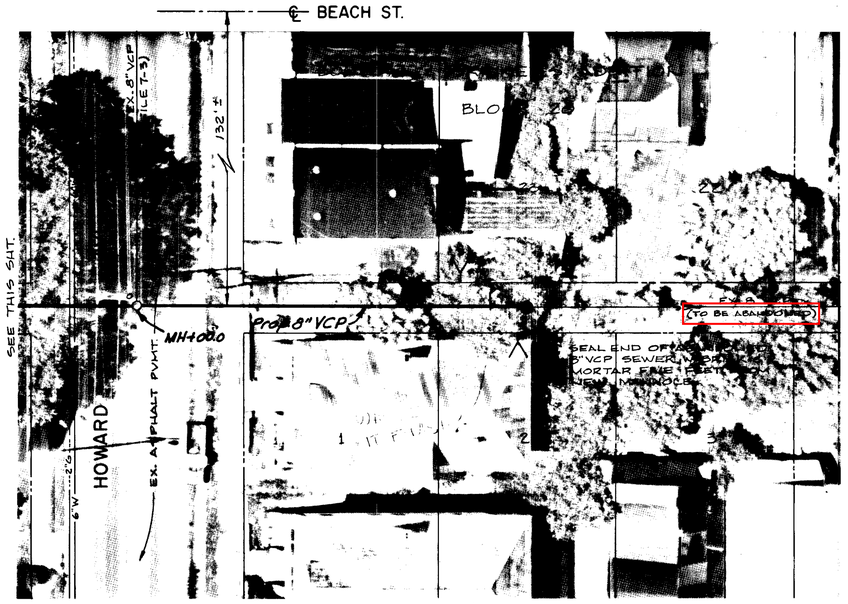
PLAN & PROFILE
REY PARK NORTH OF CHERRY ST.
BETWEEN TWITT ST. AND HOWARD AVE.
STA. 0+00 to STA. 5+05

SHEET 11 OF 31

213-11

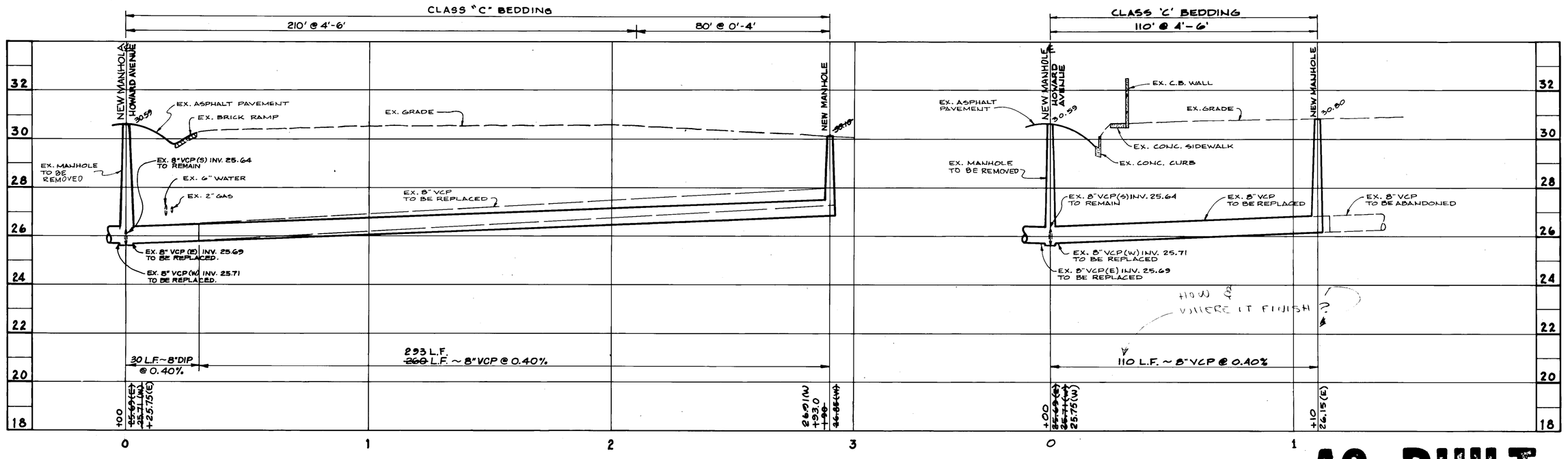


ALLEY BETWEEN ST. CONRAD ST. AND BEACH ST.
EAST OF HOWARD AVE.



ALLEY BETWEEN ST. CONRAD ST. AND BEACH ST.
WEST OF HOWARD AVE.

PLAN



SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
Er. 5-18-87

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. # 13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1983

DEPARTMENT OF SANITARY SEWERS
JACK R. MORRIS, P.E.
DIRECTOR
ANDREW T. CRONBERG, P.E. # 32560
CHIEF ENGINEER

NO	DATE	REVISIONS
1	5-18-87	AS BUILT BY SURVEY NOTES

SCALE
20 0 20 40 60
1" = 20'

DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA
WEST TAMPA NEIGHBORHOOD SEWER PROJECT

PLAN & PROFILE
ALLEY BETWEEN ST. CONRAD ST. & BEACH ST.
EAST OF HOWARD AVE. - STA. 0+00 to STA. 2+90
WEST OF HOWARD AVE. - STA. 0+00 to STA. 1+10

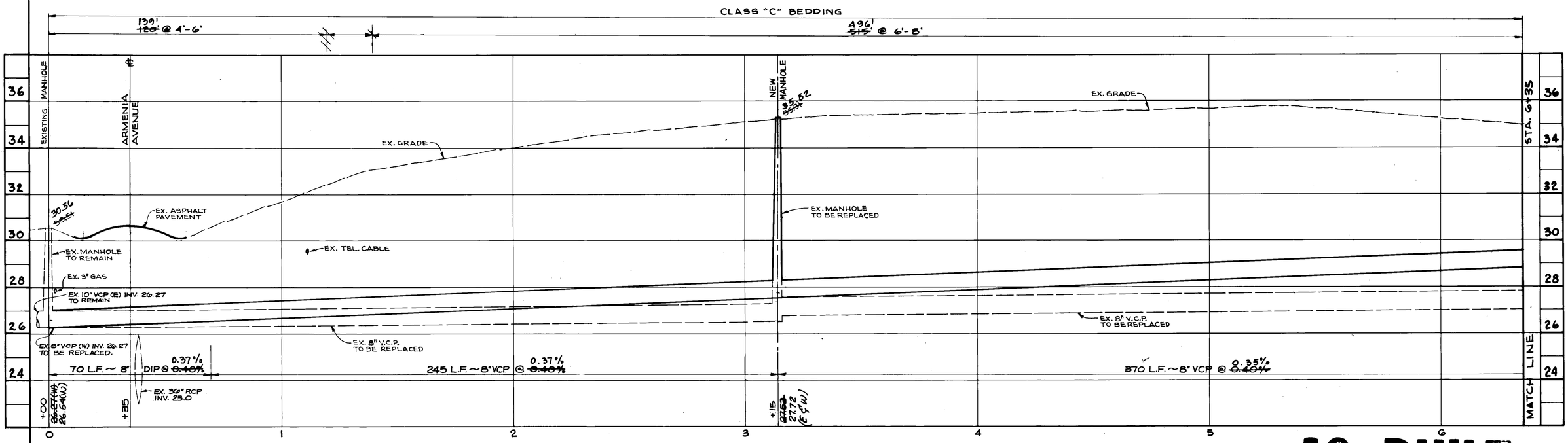
SHEET 15 OF 31

213-15



ALLEY BETWEEN PALMETTO ST. AND CHERRY ST.
WEST OF ARMENIA AVE.

PLAN



SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
ECo 5-21-87

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER P.E. # 13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1983
DEPARTMENT OF SANITARY SEWERS JACK R. MORRISS, P.E. DIRECTOR ANDREW T. CRONBERG, P.E. # 32560 CHIEF ENGINEER		

№	DATE	REVISIONS
1	5-21-87	As built by survey notes.

SCALE
20 0 20 40 60
1" = 20'

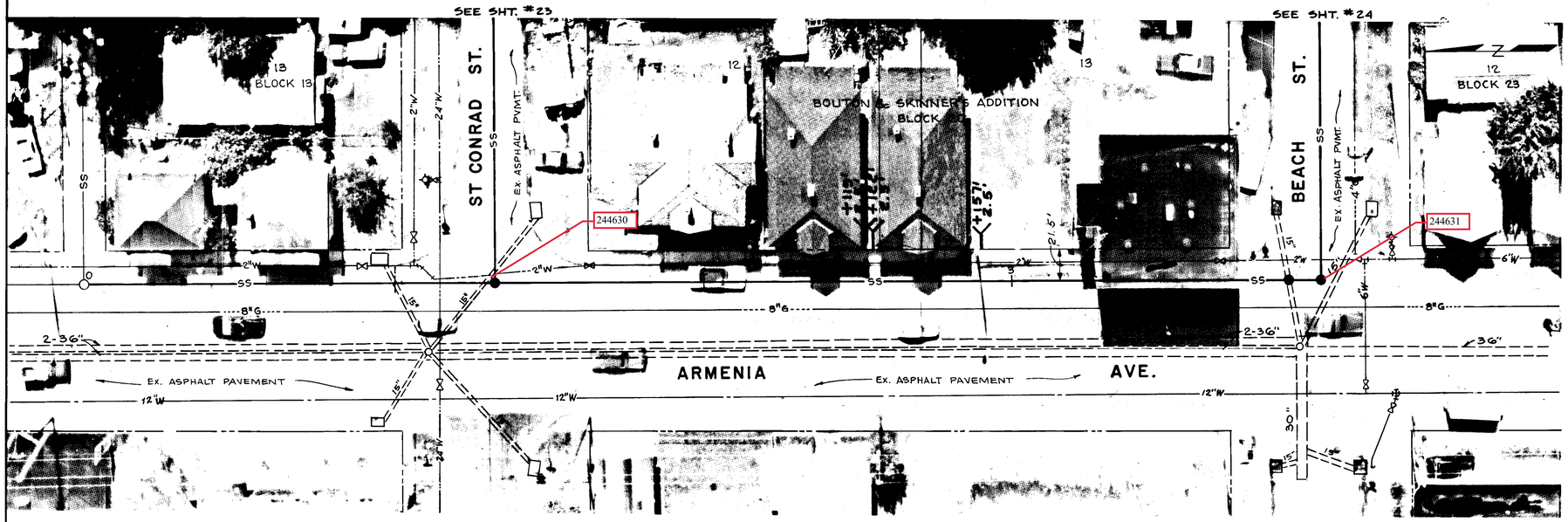
DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA

WEST TAMPA NEIGHBORHOOD SEWER PROJECT

PLAN & PROFILE
ALLEY BETWEEN PALMETTO ST. & CHERRY ST.
WEST OF ARMENIA AVE.
STA. 0+00 TO STA. 6+35

SHEET 16 OF 31

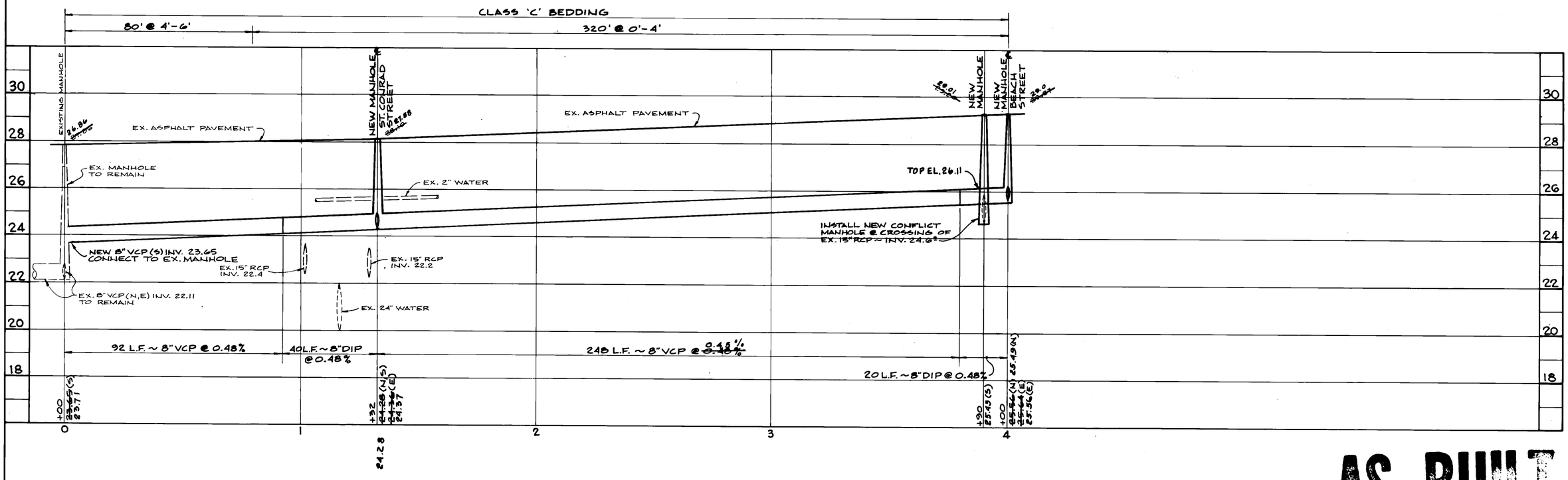
213-16





ARMENIA AVE. BETWEEN ST. CONRAD ST. AND BEACH ST.

PLAN



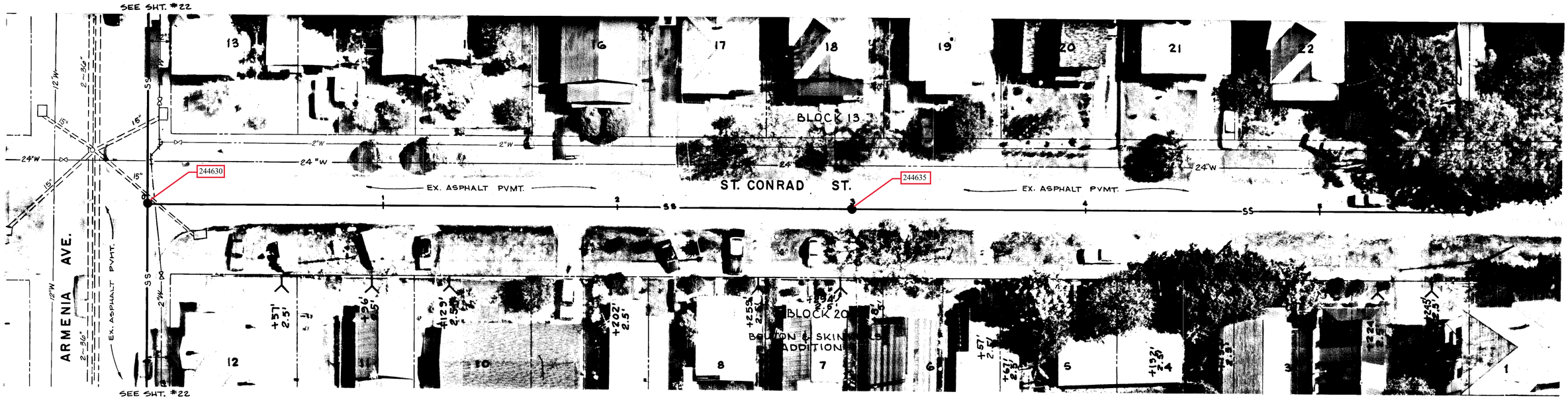
SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT

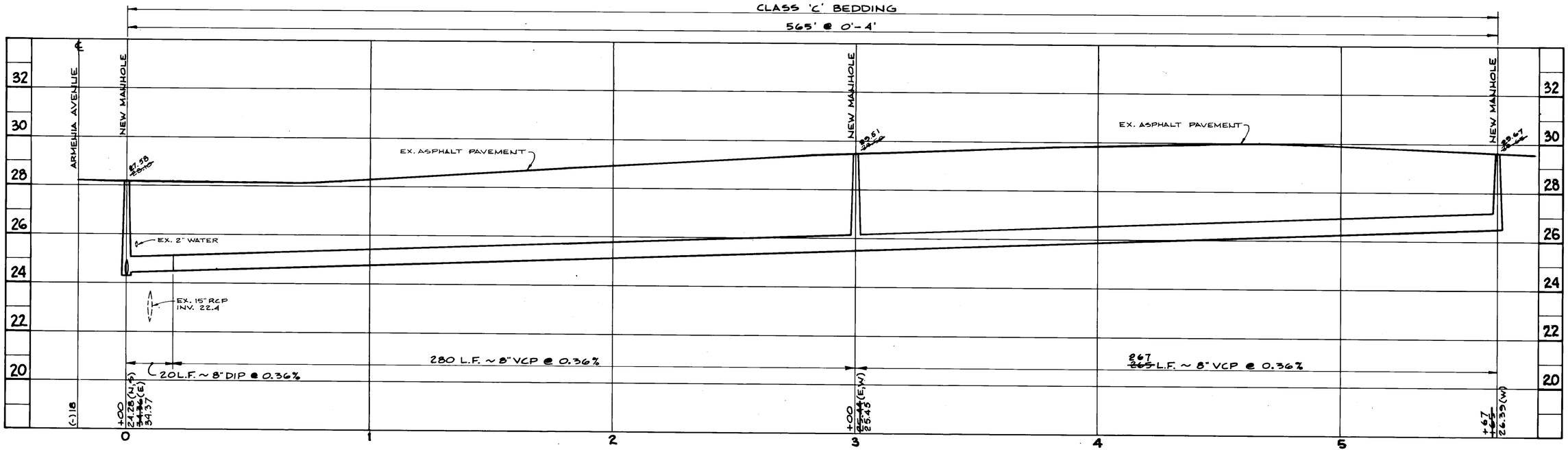
REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1983	DEPARTMENT OF SANITARY SEWERS JACK P. MORRISS, P.E. DIRECTOR ANDREW T. CRONBERG, P.E. # 32560 CHIEF ENGINEER	No. / DATE / REVISIONS 1 / 6-3-87 / As built by survey notes.	SCALE 20 0 20 40 60 1" = 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE ARMENIA AVE. BETWEEN ST. CONRAD ST. AND BEACH ST. STA. 0+00 TO STA. 4+00	SHEET 22 OF 31

213-22



ST. CONRAD ST. EAST OF ARMENIA AVE.

PLAN



SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT
DL 6-4-87

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. # 13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1983

DEPARTMENT OF SANITARY SEWERS
JACK R. MORRISS, P.E.
DIRECTOR
ANDREW T. CROMBERG, P.E. # 32560
CHIEF ENGINEER

NO	DATE	REVISIONS
1	6-3-87	As built by survey notes.

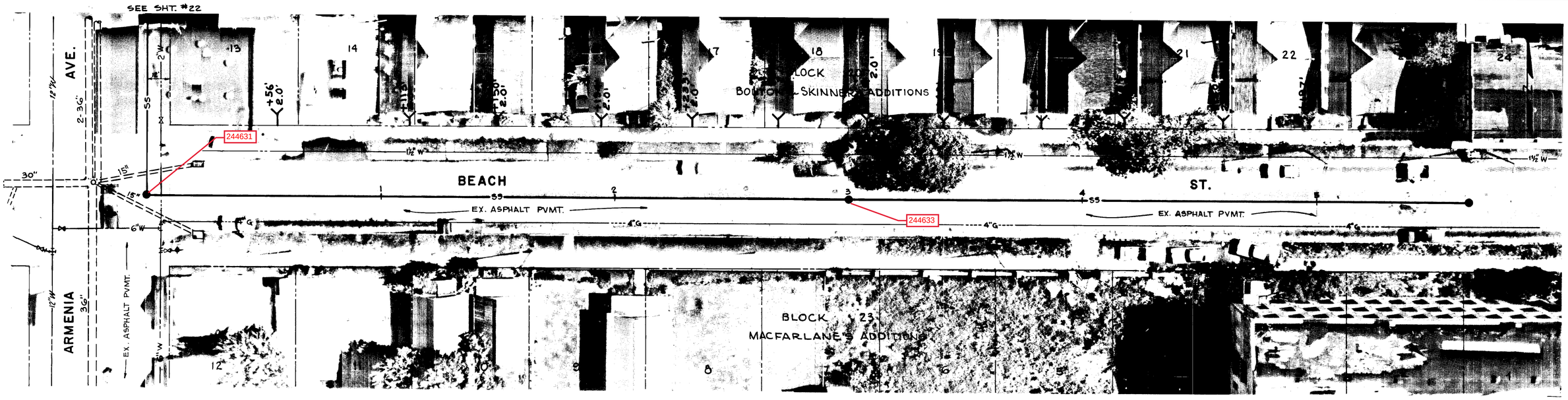
SCALE
20 0 20 40 60
1" = 20'

DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA
WEST TAMPA NEIGHBORHOOD SEWER PROJECT

PLAN & PROFILE
ST. CONRAD ST. EAST OF ARMENIA AVE.
STA. 0+00 to STA. 5+65

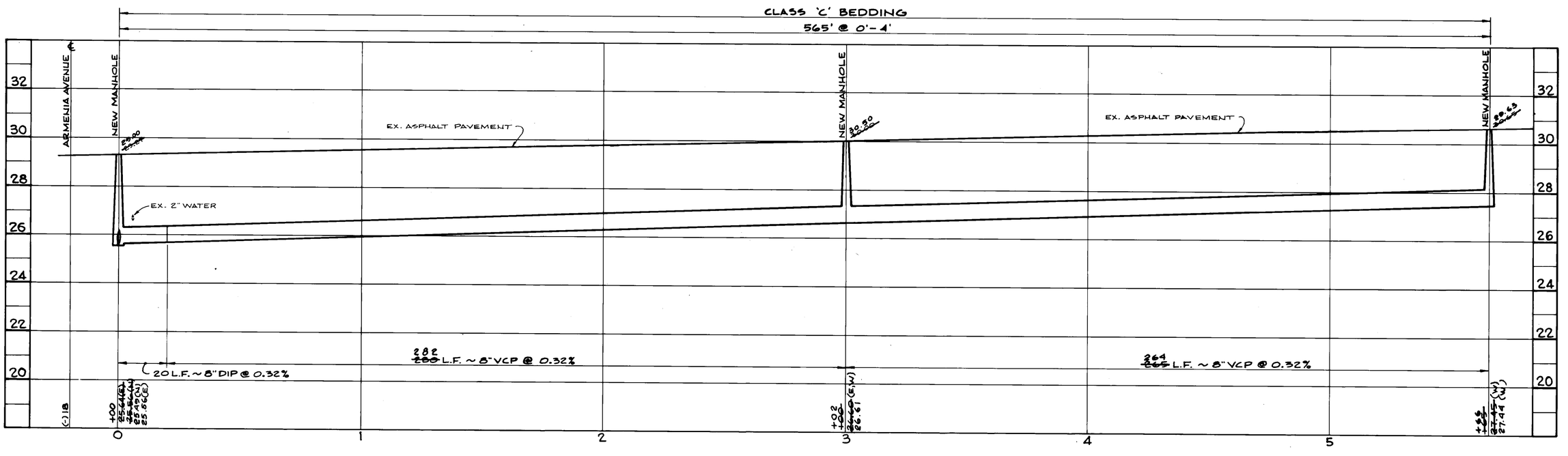
SHEET 23 OF 31

213-23



BEACH ST. EAST OF ARMENIA AVE.

PLAN



SCALE: HORIZONTAL - 1"= 20'
VERTICAL - 1"= 2'

PROFILE

AS BUILT
ELW 6-4-87

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1983
DEPARTMENT OF SANITARY SEWERS JACK P. MORRISS, P.E. DIRECTOR ANDREW T. CRONBERG, P.E. # 32560 CHIEF ENGINEER		

№	DATE	REVISIONS
1	6-3-87	As built by survey notes.

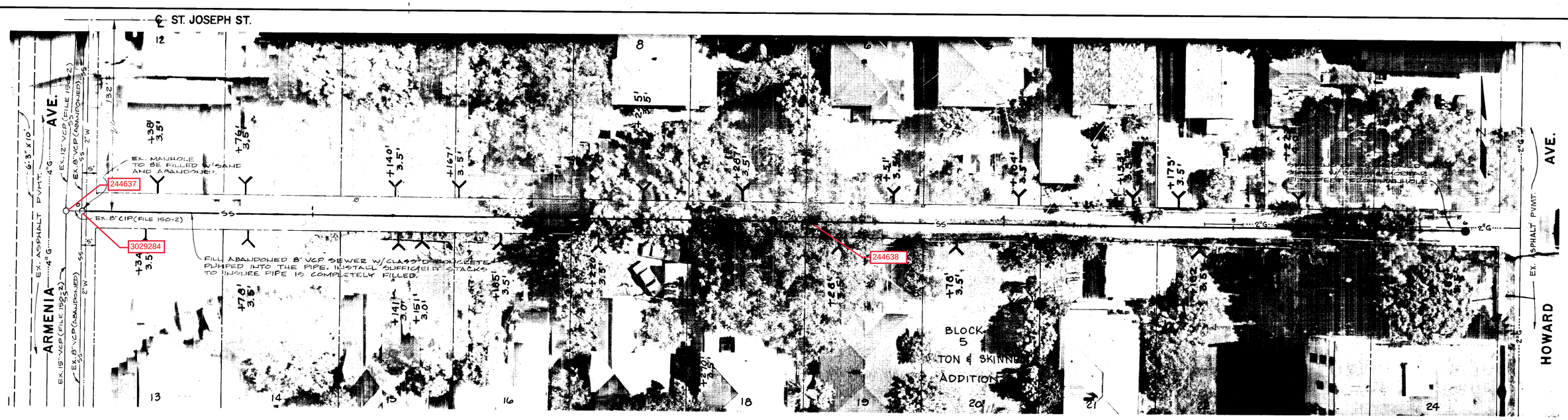
SCALE
20 0 20 40 60
1"= 20'

DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA
WEST TAMPA NEIGHBORHOOD SEWER PROJECT

PLAN & PROFILE
BEACH ST. EAST OF ARMENIA AVE.
STA. 0+00 to STA. 5+65

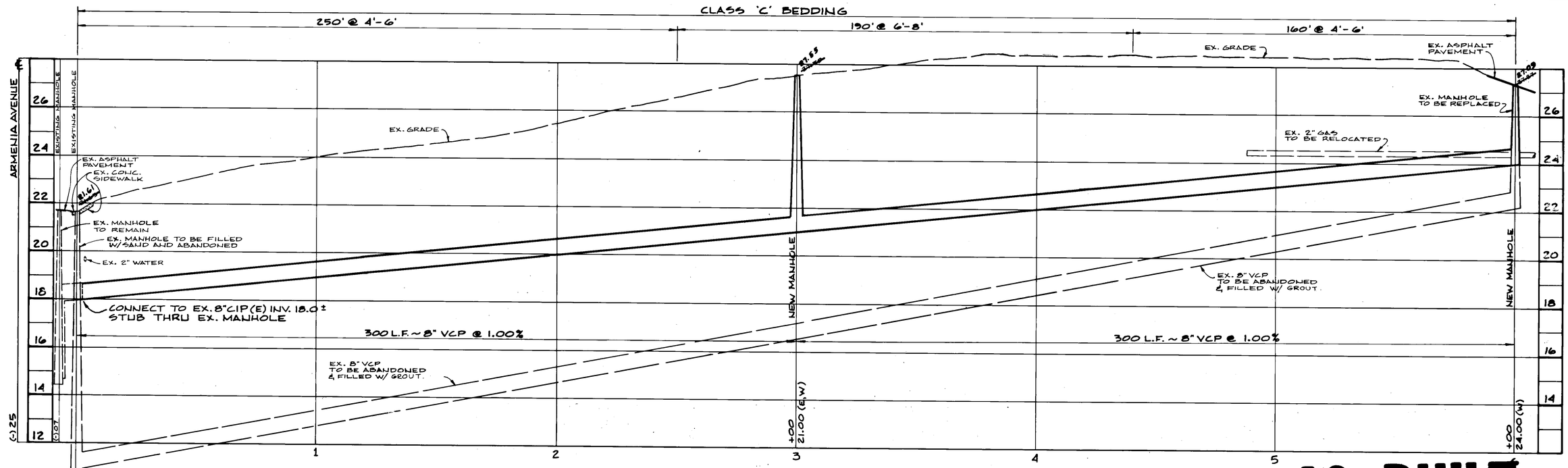
SHEET 24 OF 31

213-24



ALLEY BETWEEN ST. JOSEPH ST. AND ST. LOUIS ST.
EAST OF ARMENIA AVE.

PLAN



SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

PROFILE

AS BUILT

Elo 6-5-87

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. #13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1983	DEPARTMENT OF SANITARY SEWERS JACK P. MORRISS, P.E. DIRECTOR ANDREW T. CRONBERG, P.E. # 32560 CHIEF ENGINEER	NO. 1	DATE 6-5-87	REVISIONS As built by Survey Notes	SCALE 20 0 20 40 60 1" = 20'

DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA

WEST TAMPA NEIGHBORHOOD SEWER PROJECT

PLAN & PROFILE
ALLEY BETWEEN ST. JOSEPH ST. AND ST. LOUIS ST.
EAST OF ARMENIA AVE.
STA. 0+00 to STA. 6+00

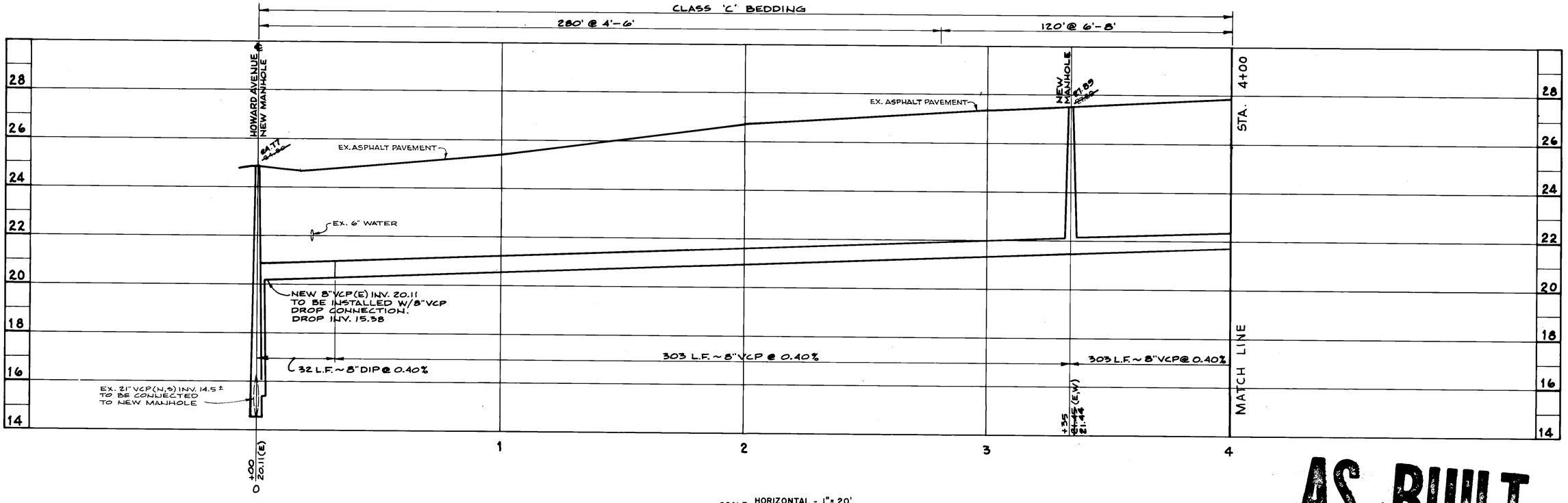
SHEET 25 OF 31

213-25



ST. JOSEPH ST. EAST OF HOWARD AVE.

PLAN



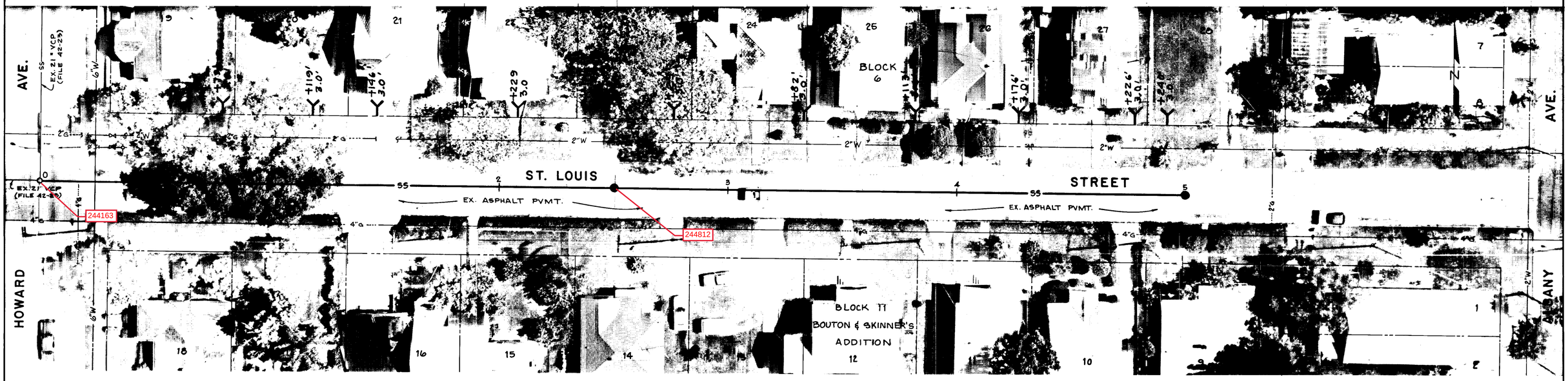
SCALE: HORIZONTAL - 1"= 20'
VERTICAL - 1"= 2'

PROFILE

AS BUILT
Cb 6-5-87

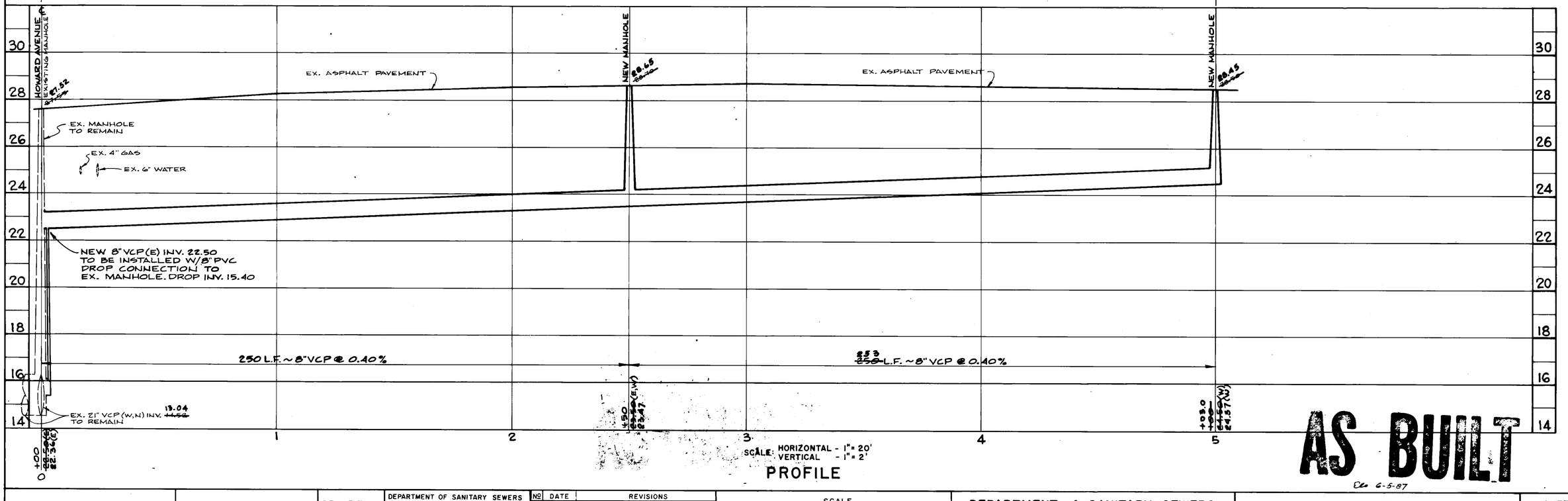
REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. # 13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1983	DEPARTMENT OF SANITARY SEWERS JACK P. MORRISS, P.E. DIRECTOR ANDREW T. CRONBERG, P.E. # 32560 CHIEF ENGINEER	No. 1 — DATE 6-5-87 — REVISIONS: As built by Survey notes	SCALE 20 0 20 40 60 1"= 20'	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA WEST TAMPA NEIGHBORHOOD SEWER PROJECT	PLAN & PROFILE ST. JOSEPH EAST OF HOWARD AVE. STA. 0+00 to STA. 4+00	SHEET 26 OF 31

213-26



ST. LOUIS ST. EAST OF HOWARD AVE.

PLAN



SCALE: HORIZONTAL - 1"= 20'
VERTICAL - 1"= 2'

PROFILE

AS BUILT
DD 6-5-87

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED TAMPA FLORIDA	DALE D. ERNSBERGER, P.E. # 13768	DES. D.D.E. DRN. G.M.T. CKD. D.D.E. DATE: NOV. 1985

DEPARTMENT OF SANITARY SEWERS
JACK P. MORRISS, P.E.
DIRECTOR
ANDREW T. CRONBERG, P.E. # 32560
CHIEF ENGINEER

NO	DATE	REVISIONS
1	6-5-87	As built by Survey Notes

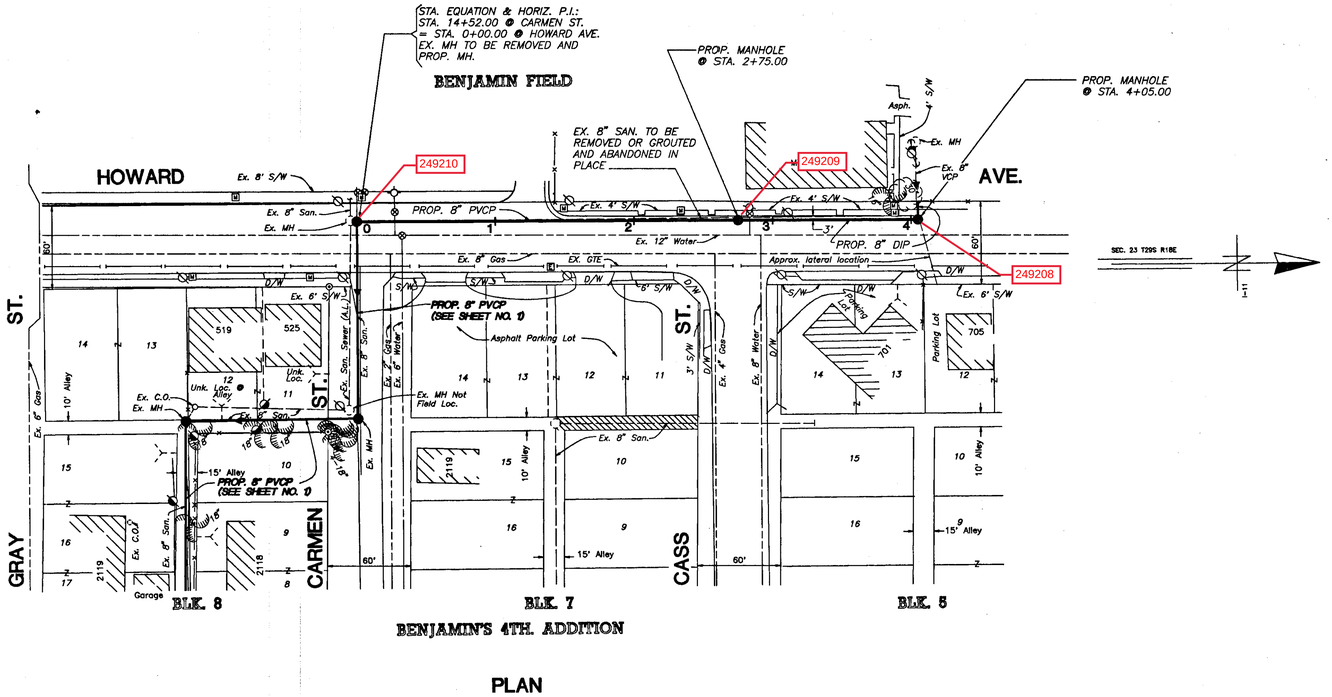
SCALE
20 0 20 40 60
1"= 20'

DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA
WEST TAMPA NEIGHBORHOOD SEWER PROJECT

PLAN & PROFILE
ST. LOUIS EAST OF HOWARD AVE.
STA. 0+00 to STA. 5+00

SHEET 28 OF 31

213-28



PLAN

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. WHERE AN EXISTING SEWER IS TO BE REMOVED OR ABANDONED AND REPLACED WITH A NEW SEWER, CONTINUOUS SEWER SERVICE MUST BE MAINTAINED AT ALL TIMES, WHILE CONNECTING THE LATERALS TO THE NEW SEWER IN PLACE.
5. THE MINIMUM CLEARANCE BETWEEN HOUSE LATERALS AND WATER LINES SHALL BE 6" UNDER ALL CIRCUMSTANCES. IF THE HOUSE LATERAL IS BELOW A WATER LINE AND HAS BETWEEN 6" AND 18" OF CLEARANCE, OR IF THE LATERAL IS ABOVE THE WATER LINE REGARDLESS OF CLEARANCE, THEN A NOMINAL 20' LENGTH OF GREEN AWWA CLASS 150 C900 PVC PIPE SHALL BE CENTERED OVER/UNDER THE WATER LINE.
6. CONSTRUCTION OF SEWER LINE SHALL BE STAGED SO THAT TWO LANES OF TRAFFIC ON HOWARD AVE. REMAIN OPEN AT ALL TIMES.
7. ROADWAY RESTORATION SHALL COMPRISE OF THE FOLLOWING.

   HOWARD AVE.:

   10" LIMEROCK BASE
   2" TYPE S-I A.C.
   3/4" TYPE S-III A.C.

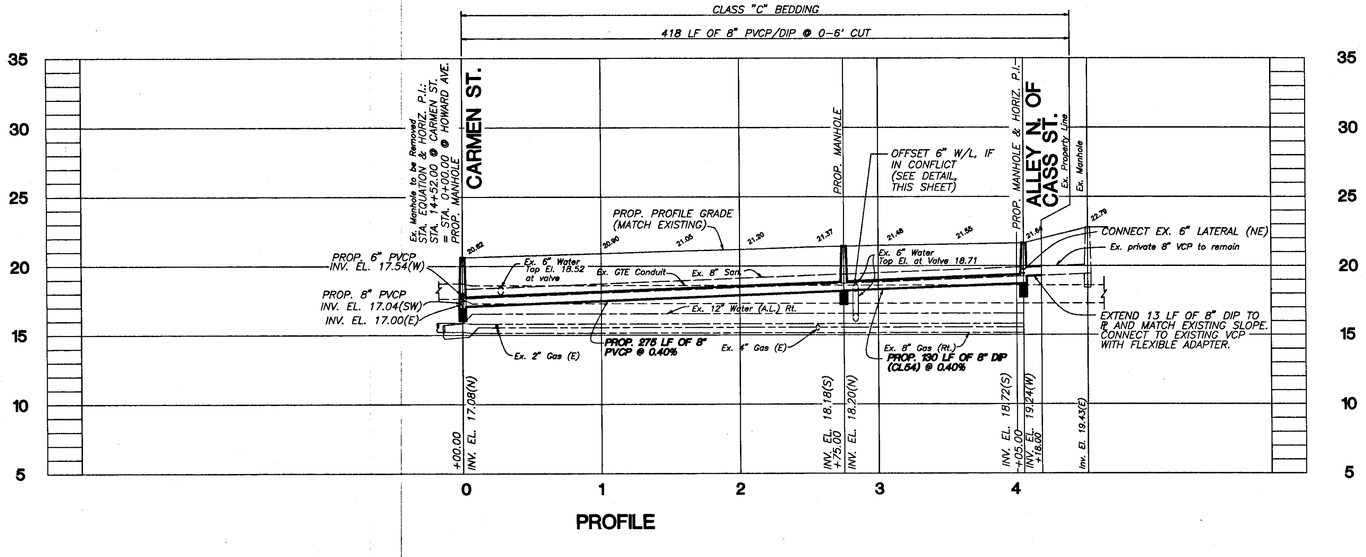
   CARMEN ST.AND ALBANY AVE.:

   8" LIMEROCK BASE
   1" TYPE S-I A.C.
   3/4" S-III A.C.

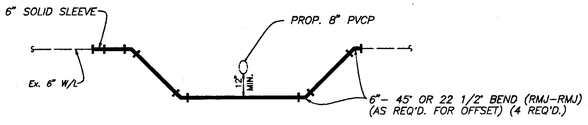
   ALLEY:

   6" LIMEROCK BASE
   1 1/2" TYPE S-I A.C.

8. PRIOR TO CONSTRUCTION, A FIELD MEETING SHALL BE COORDINATED WITH A PARKS DEPARTMENT REPRESENTATIVE TO DETERMINE THE SCOPE OF TREE TRIMMING AND ROOT PRUNING REQUIRED FOR THIS PROJECT.
9. ALL EXISTING LATERALS ENCOUNTERED IN THE FIELD SHALL BE REPLACED WITH A 6" PVC LATERAL AND CLEANOUT.



PROFILE



WATER LINE OFFSET DETAIL
N.T.S.

STATION #2
1"=50'
C:\ACAD\DWGS\PIPES\4650-2

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

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

DES: J.F.
DRN: CL
CKD: A.H.
DATE: 8/20/95

No.	DATE	REVISIONS
1		
2		
3		
4		
5		

SCALE
50 0 50 100
1" = 50'

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

HOWARD AVE.: CARMEN ST.
TO CASS ST.

DESIGN W.O. 4650
CONSTRUCTION W.O.

SHEET 2 OF 2

282-2

CITY OF TAMPA WATER SYSTEM NOTES

1. WATER SERVICE TO BE PROVIDED BY CITY OF TAMPA WATER DEPARTMENT.
2. ALL WATER WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TAMPA WATER DEPARTMENT TECHNICAL MANUAL, LATEST EDITION, AND WITH ALL WATER DETAILS THEREIN. THE DETAILS AND STANDARDS DESCRIBED ABOVE SHALL BE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.
3. PRIOR TO CONSTRUCTION CONTRACTOR IS TO OBTAIN THE LATEST EDITION OF "CITY OF TAMPA WATER DEPARTMENT STANDARDS AND SPECIFICATIONS". CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO CONFORM WITH THE LATEST CITY OF TAMPA SPECIFICATIONS.
4. CONTRACTOR SHALL COORDINATE ANY WORK WITH THE TAMPA WATER DEPARTMENT PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO ARRANGE A PRE-CONSTRUCTION MEETING WITH THE TAMPA WATER DEPT. (HARRY GLENN, PH. 259-1636) TO REVIEW MATERIALS SUBMITTALS AND DISCUSS INSTALLATION TECHNIQUES/ PROCEDURES, A MINIMUM OF 5 DAYS PRIOR TO PLANNED CONSTRUCTION.
5. ALL ELEVATIONS ARE BASED ON NGVD 1929 DATUM UNLESS OTHERWISE NOTED. STATIONING OF THE WATER MAIN AND FITTINGS AS SHOWN HEREON REFERS TO CENTERLINE OF ROADWAY UNLESS OTHERWISE INDICATED.
6. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES UNLESS OTHERWISE NOTED. WATER MAIN SHALL BE LOCATED 5' OFF EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
7. ALL WATER MAINS SHALL BE CONSTRUCTED IN A MANNER SUCH AS TO MAINTAIN A MINIMUM OF THREE (3) FEET HORIZONTAL SEPARATION FROM OTHER UTILITIES, EXCEPT STORM, SANITARY AND GAS.
8. IN ACCORDANCE WITH COT WATER DEPARTMENT STANDARD DETAIL 2.06, A SHOCK PAD IS TO BE INSTALLED OVER THE WATER MAIN WHEN THE DEPTH OF COVER IS LESS THAN THE MINIMUM 30".
9. ALL WATER PIPE MATERIAL AND INSTALLATIONS ARE TO BE IN ACCORDANCE WITH THE CITY OF TAMPA SPECIFICATIONS. ALL DUCTILE IRON PIPE (DIP) SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C-151/A21.51. PIPE SHALL BE LINED WITH A STANDARD THICKNESS CEMENT-MORTAR LINING AND SEAL COATED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C104/A21.4 AND NSF 61. PIPE SHALL BE PRESSURE CLASS 350.
10. ALL DUCTILE IRON PIPE SHALL BE PUSH-ON JOINT OR MECHANICAL JOINT AND SHALL CONFORM TO AWWA STANDARD C-111/A21.11.
11. ALL FITTINGS SHALL BE DUCTILE IRON AND MECHANICAL JOINT, WEDGE ACTION RESTRAINT SUCH AS EBBA MEGA-LUG OR APPROVED EQUAL, SHALL BE INSTALLED IN ACCORDANCE WITH TAMPA WATER DEPARTMENT RESTRAINT TABLES ON SHEET 8, OR AS INDICATED BY ENGINEER ON THE PLANS.
12. RESTRAINT OF DIP MECHANICAL JOINT PIPE FITTINGS SHALL BE WITH MECHANICAL RESTRAINTS IN ACCORDANCE WITH THE APPROPRIATE CITY OF TAMPA RESTRAINT TABLE SHOWN IN THESE PLANS. NO CONCRETE THRUST BLOCKS ARE TO BE USED FOR THRUST RESTRAINT, RESTRAINT OF PUSH-ON DIP, OTHER THAN FOR FITTINGS, SHALL BE WITH APPROVED PUSH-ON RESTRAINTS.
13. BENDS SHALL BE INSTALLED IN DIP WATER MAIN, AS NECESSARY, TO MAINTAIN PROPER ALIGNMENT. DIP JOINT DEFLECTION SHALL BE IN ACCORDANCE WITH AWWA C-600, LATEST EDITION, EXCEPT DEFLECTION ALLOWED SHALL BE 80% OR LESS THAN THE DEFLECTION VALUES GIVEN IN THE AWWA DEFLECTION TABLES.
14. FIRE HYDRANT AND GATE VALVE ASSEMBLIES SHALL CONSIST OF ALL PIPE, VALVES, TEES, FITTINGS AND ANY AND ALL OTHER APPURTENANCES COMPRISING A COMPLETE, WORKING UNIT AS REQUIRED BY THE CITY OF TAMPA SPECIFICATIONS. FIRE HYDRANTS SHALL BE 5-1/4" DMS, WITH BOTTOM OF FLANGE ELEVATION TO BE 3'-6" ABOVE FINISHED GRADE. (SEE CITY OF TAMPA STANDARD DETAILS 4.01 AND 4.02).
15. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED IN A MANNER THAT MAINTAINS AT LEAST SIX (6) FEET OF CLEARANCE BETWEEN ROADWAY BACK OF CURB AND THE HYDRANT.
16. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS SHOULD CROSS (UNDER) WATER MAINS. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 12 INCHES BETWEEN THE OUTSIDE BOTTOM OF THE UPPER PIPE (WATER MAIN) AND THE OUTSIDE TOP OF THE LOWER PIPE (STORM OR SANITARY).
17. WHEN SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 12 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING (SANITARY SEWER MAIN MAY BE CONSTRUCTED OF PVC MEETING AWWA C-900 STANDARDS). DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING.
18. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING (OVER) A WATER MAIN, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES AND 10 FEET BETWEEN JOINTS SHALL BE REQUIRED.
19. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE JOINTS OF THE CROSSING PIPES ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
20. A MINIMUM 10' HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER/STORM AND WATER MAIN IN PARALLEL INSTALLATIONS. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION BETWEEN ANY TYPE OF PARALLEL SEWER AND WATER MAIN, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER.
21. PROPOSED CROSSINGS WITH LESS THAN 18" OF CLEARANCE SHALL BE EVALUATED BY THE CITY OF TAMPA WASTEWATER DEPARTMENT'S DESIGN DIVISION ON A CASE-BY-CASE BASIS.
22. IN AREAS OF HIGH GROUND WATER, UNSATISFACTORY SOILS, CROSSING GAS LINES, OR AS SPECIFIED BY THE ENGINEER, THE WATER MAIN AND APPURTENANCES WILL BE INSTALLED IN A LOOSE POLYETHYLENE ENCASEMENT NOT LESS THAN 8 MILS THICK IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE SPECIFICATION A21.5 AND CITY OF TAMPA STANDARD DETAIL 2.05.
23. CLEARANCE BETWEEN ALL TREES AND WATER MAINS SHALL MEET CITY OF TAMPA PARKS DEPARTMENTS LATEST REQUIREMENTS. NO TREE SHALL BE PLANTED WITHIN 10 FEET OF INSTALLED OR EXISTING WATER MAINS.

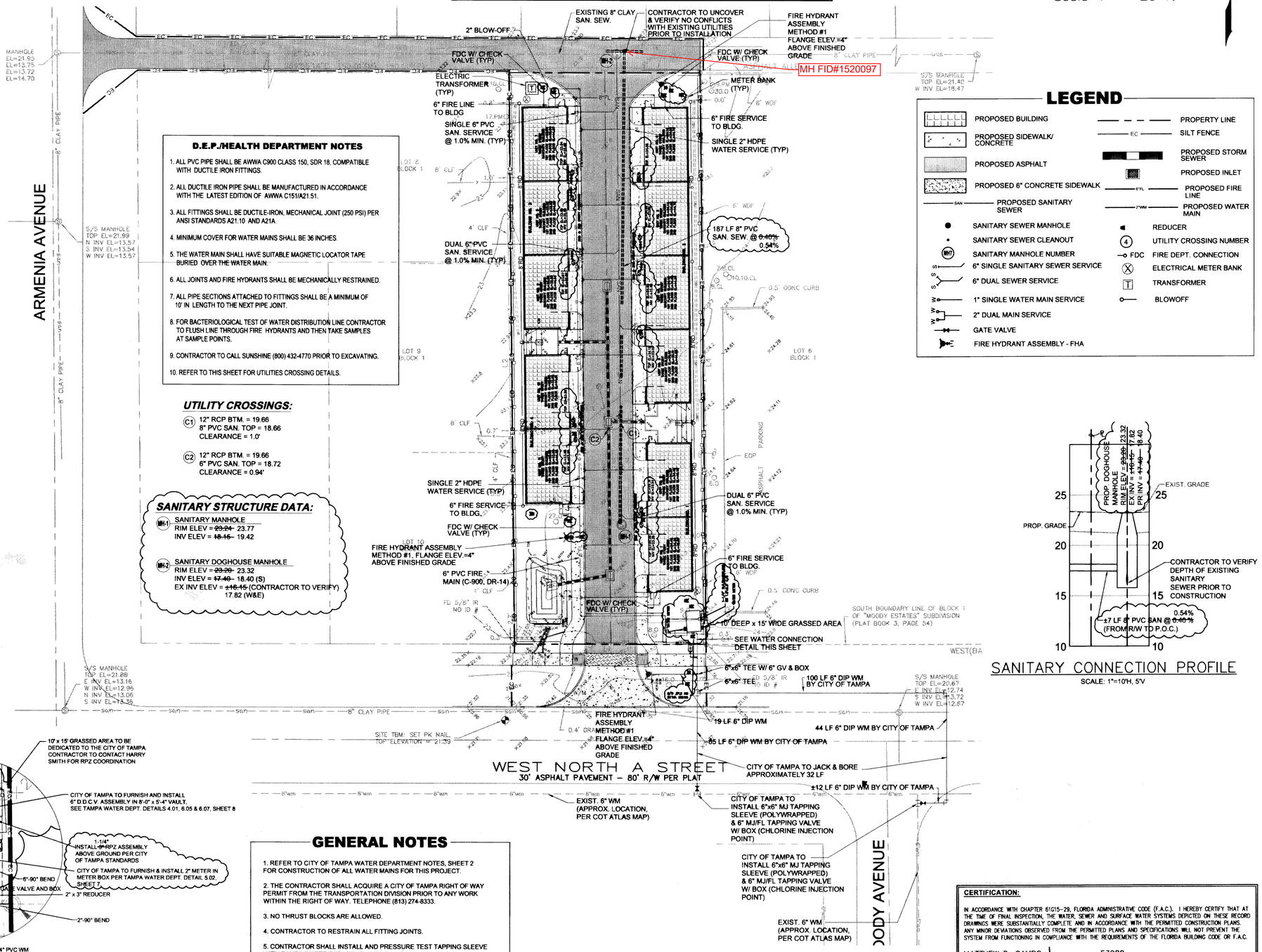
WATER SYSTEM TESTING AND INSPECTION REQUIREMENT NOTES

1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND CITY INSPECTORS 3 WORKING DAYS IN ADVANCE OF PERFORMING TESTS.
2. CONTRACTOR SHALL PRESSURE TEST WATER MAINS AT 150 PSI FOR A PERIOD OF 2 HOURS IN ACCORDANCE WITH AWWA C600-87 STANDARDS. CONTRACTOR SHALL NOTIFY ENGINEER AND THE CITY OF TAMPA AT LEAST 72 HOURS PRIOR TO START OF ANY TEST. THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS AND ARRANGEMENTS.
3. CONTRACTOR TO PERFORM CHLORINATION AND COORDINATE BACTERIOLOGICAL SAMPLING WITH THE CITY OF TAMPA CONSTRUCTION INSPECTION SECTION IN ACCORDANCE WITH TAMPA WATER DEPARTMENT TECHNICAL MANUAL AND AWWA SPECIFICATION C651. CONTRACTOR TO OBTAIN SAMPLE CLEARANCE ON DOMESTIC WATER SYSTEM.
4. ALL TEST POINTS AND CHLORINATION POINTS PIPING SHALL BE COMPLETELY REMOVED PRIOR TO FINAL ACCEPTANCE. THE CORPORATION STOP SHALL BE REMOVED AND THE MAIN PLUGGED AFTER OPERATION (SEE CITY OF TAMPA STANDARD DETAIL 2.17).

PRIOR TO CONSTRUCTION, CONTRACTOR IS TO OBTAIN THE 2004 EDITION OF "TAMPA WATER DEPARTMENT TECHNICAL MANUAL" FROM THE CITY OF TAMPA. CONSTRUCTION, MATERIALS, AND WORKMANSHIP ARE TO CONFORM WITH THE LATEST CITY OF TAMPA STANDARDS AND SPECIFICATIONS.

NOTES:
1. WATER MAIN TAPS TO BE PERFORMED BY CITY WATER DEPT. PERSONNEL ONLY. CONTRACTOR SHALL EXCAVATE AND INSTALL TAPPING SLEEVE, WATER DEPT. TO PRESSURE TEST AND PERFORM TAP. CONTACT CHIEF INSPECTOR HARRY GLENN AT 259-1636 (M-TR), 3 WORKING DAYS PRIOR, TO COORDINATE AND SCHEDULE TAP.
2. RESTRAIN ALL DIP W.M. JOINTS FROM TAP TO PLUG.
3. POLYWRAP ALL DIP W.M. FITTINGS NOT IN CASING OR IN VAULT.

NOTE:
CONTRACTOR TO VERIFY DEPTH OF EXISTING 8" SANITARY SEWER PRIOR TO CONSTRUCTION.



D.E.P./HEALTH DEPARTMENT NOTES

1. ALL PVC PIPE SHALL BE AWWA C900 CLASS 150, SDR 18, COMPATIBLE WITH DUCTILE IRON FITTINGS.
2. ALL DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C151/A21.51.
3. ALL FITTINGS SHALL BE DUCTILE-IRON, MECHANICAL JOINT (250 PSI) PER ANSI STANDARDS A21.10 AND A21A.
4. MINIMUM COVER FOR WATER MAINS SHALL BE 36 INCHES.
5. THE WATER MAIN SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE BURIED OVER THE WATER MAIN.
6. ALL JOINTS AND FIRE HYDRANTS SHALL BE MECHANICALLY RESTRAINED.
7. ALL PIPE SECTIONS ATTACHED TO FITTINGS SHALL BE A MINIMUM OF 10' IN LENGTH TO THE NEXT PIPE JOINT.
8. FOR BACTERIOLOGICAL TEST OF WATER DISTRIBUTION LINE CONTRACTOR TO FLUSH LINE THROUGH FIRE HYDRANTS AND THEN TAKE SAMPLES AT SAMPLE POINTS.
9. CONTRACTOR TO CALL SUNSHINE (800) 432-4770 PRIOR TO EXCAVATING.
10. REFER TO THIS SHEET FOR UTILITIES CROSSING DETAILS.

UTILITY CROSSINGS:

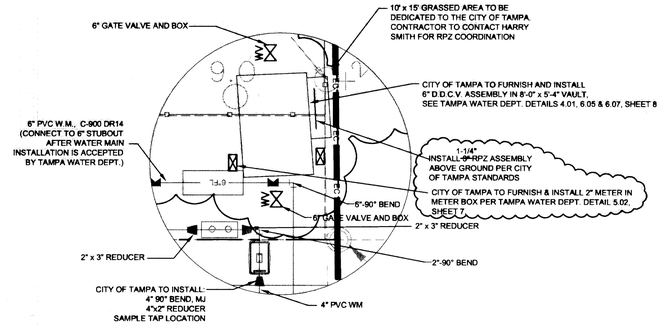
(C1) 12" RCP BTM. = 19.66
8" PVC SAN. TOP = 18.66
CLEARANCE = 1.0'

(C2) 12" RCP BTM. = 19.66
6" PVC SAN. TOP = 18.72
CLEARANCE = 0.94'

SANITARY STRUCTURE DATA:

(MH-1) SANITARY MANHOLE
RIM ELEV = ~~23.24~~ 23.77
INV ELEV = ~~18.15~~ 19.42

(MH-2) SANITARY DOGHOUSE MANHOLE
RIM ELEV = ~~23.20~~ 23.32
INV ELEV = ~~17.40~~ 18.40 (S)
EX INV ELEV = ~~±16.15~~ (CONTRACTOR TO VERIFY) 17.82 (W&E)



WATER CONNECTION DETAIL
SCALE: 1" = 10'

GENERAL NOTES

1. REFER TO CITY OF TAMPA WATER DEPARTMENT NOTES, SHEET 2 FOR CONSTRUCTION OF ALL WATER MAINS FOR THIS PROJECT.
2. THE CONTRACTOR SHALL ACQUIRE A CITY OF TAMPA RIGHT OF WAY PERMIT FROM THE TRANSPORTATION DIVISION PRIOR TO ANY WORK WITHIN THE RIGHT OF WAY. TELEPHONE (813) 274-8333.
3. NO THRUST BLOCKS ARE ALLOWED.
4. CONTRACTOR TO RESTRAIN ALL FITTING JOINTS.
5. CONTRACTOR SHALL INSTALL AND PRESSURE TEST TAPPING SLEEVE WITH TAMPA WATER DEPARTMENT (TWD) INSPECTOR PRESENT. TWD WILL PERFORM TAP.
6. PRIVATE, ON SITE SANITARY MANHOLES MAY HAVE A MINIMUM WALL THICKNESS OF 6 INCHES.

RECORD DRAWING ASBUILT =

RECORD DRAWING ASBUILT INFORMATION PROVIDED BY BROOKS & AMADEN, INC.

SANITARY CONNECTION PROFILE
SCALE: 1"=10'H, 5'V

LEGEND

- PROPOSED BUILDING
- PROPOSED SIDEWALK/ CONCRETE
- PROPOSED ASPHALT
- PROPOSED 6" CONCRETE SIDEWALK
- PROPOSED SANITARY SEWER
- PROPERTY LINE
- SILT FENCE
- PROPOSED STORM SEWER
- PROPOSED INLET
- PROPOSED FIRE LINE
- PROPOSED WATER MAIN
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- SANITARY MANHOLE NUMBER
- 6" SINGLE SANITARY SEWER SERVICE
- 6" DUAL SEWER SERVICE
- 1" SINGLE WATER MAIN SERVICE
- 2" DUAL MAIN SERVICE
- GATE VALVE
- FIRE HYDRANT ASSEMBLY - FHA
- REDUCER
- UTILITY CROSSING NUMBER
- FDC FIRE DEPT. CONNECTION
- ELECTRICAL METER BANK
- TRANSFORMER
- BLOWOFF

CERTIFICATION:

IN ACCORDANCE WITH CHAPTER 61G15-29, FLORIDA ADMINISTRATIVE CODE (F.A.C.), I HEREBY CERTIFY THAT AT THE TIME OF FINAL INSPECTION, THE WATER, SEWER AND SURFACE WATER SYSTEMS DEPICTED ON THESE RECORD DRAWINGS WERE SUBSTANTIALLY COMPLETE AND IN ACCORDANCE WITH THE PERMITTED CONSTRUCTION PLANS. ANY MINOR DEVIATIONS OBSERVED FROM THE PERMITTED PLANS AND SPECIFICATIONS WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE OR F.A.C.

MATTHEW D. CAMPO — NAME
53988 — FL PE No.:
SIGNATURE: — DATE: 5-1-08

CAMPO ENGINEERING, INC.
FBPR CERTIFICATE OF AUTHORIZATION NO.: 26726
1725 EAST 5TH AVENUE
TAMPA, FL. 33605
PHONE: (813) 215-7372
FAX: (813) 902-8782

PROJECT TITLE

NORTH A STREET CONDOS

CITY OF TAMPA

CLIENT

MOUNTAIN CITY INVESTMENTS, INC.
501 NORTH BOULEVARD
TAMPA, FL 33606
PHONE: (813) 835-9566

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	4/2008
REVIEWED BY:	MDC
DRAWN BY:	BLM
DESIGNED BY:	BLM

PROJECT NUMBER

07-006

Matthew D. Campo 53988 April 22, 2008
NAME SEAL NO. DATE

SHEET TITLE

RECORD DRAWING UTILITY PLAN

SHEET NUMBER

6

352-048

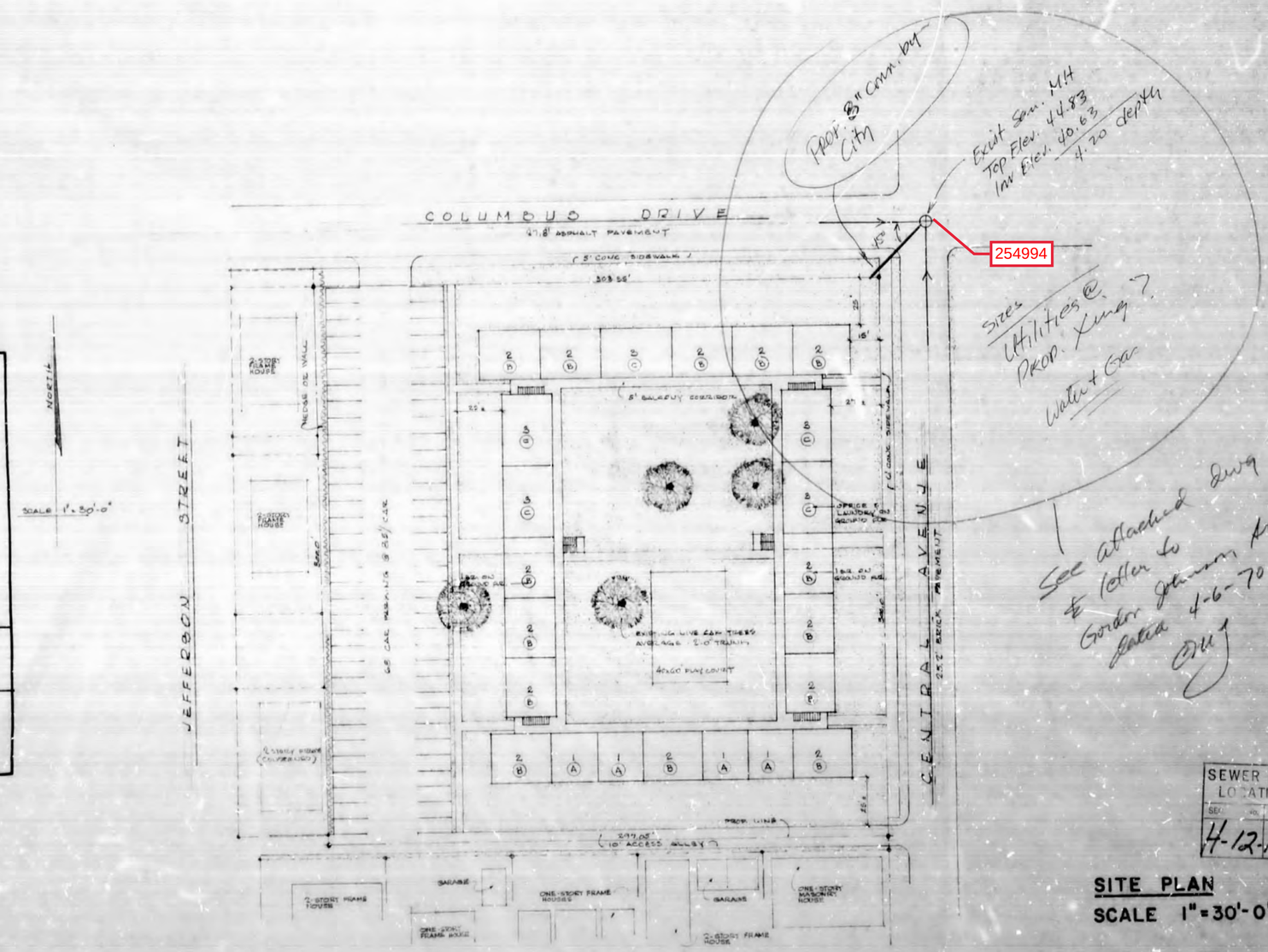
UNIT BREAKDOWN

		NO.
(A)	ONE BEDROOM	14
(B)	TWO BEDROOM	40
(C)	THREE BEDROOM	14
	TOTAL NO. UNITS =	68

1 OFFICE = 400 SQ. FT.
1 LAUNDRY = 554 SQ. FT.

PARKING (C. 8.5 X 18'-0" SPACES) = 68 CARS

GROSS FLOOR AREA	=	59,760 SQ. FT.
NET RENTABLE FLOOR AREA	=	54,400 SQ. FT.
SITE LAND AREA	=	90,060 SQ. FT.



SEWER LINE LOCATION
SEW. No. | LINE No.
4-12-misc

SITE PLAN
SCALE 1"=30'-0"

GORDON JOHNSON A.I.A. ARCHITECT
4021 NORTH ARMENIA AVENUE
TAMPA, FLORIDA 33607

CENTRAL COURT APARTMENTS
AND
CENTRAL AVE.
COLUMBUS DR FLORIDA
TAMPA, PROJECT NUMBER 067 - 35048 I.D SUP
FHA

PRELIMINARIES
SITE PLAN

7001
JAN. 22, 1970

1

507-20

B55-26

EX. 10" VCP SAN. SEWER
(NO AS-BUILTS)

COLUMBUS DR.

FOREST AVE.

EX. 8" VCP SAN. SEWER
(NO AS-BUILTS)

1" = 40'

R/W

CONST. 294'
OF 18" PIPE

SAN. MH PLACED
OUT OF SERVICE

CONST. 179'
OF 18" PIPE

CONST. 116'
OF 18" PIPE

EX. 8" VCP SAN. SEWER
TO BE LINED WITH C.I.P.P.
(NO AS-BUILTS)

CONST. 186'
OF 18" PIPE

BRYAN ST.

S.R. 45 (NEBRASKA AVE.)

CONST. 42' OF 18" PIPE

254978

EX. 10" VCP SAN. SEWER
TO BE LINED WITH C.I.P.P.
(NO AS-BUILTS)

COLUMBUS DR.

17TH AVE.

EX. 8" VCP SAN. SEWER
(NO AS-BUILTS)

1=40

C:\PROGRAMFILES\LANDDESKTOP2004\DWG\PIPE\5492-JW-26.DWG

HENRY DORZBACK, P.E. #39449
CHIEF ENGINEER
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
3		
2		
1		

DES: J.P.W.
DRN: BB
CKD:
DATE: 10/19/06

CITY of TAMPA
WASTEWATER DEPARTMENT

NEBRASKA AVE.: KENNEDY TO HILLSBOROUGH
REHABILITATION BY C.I.P.P.
PLAN SHEET

W.O. 5492
SHEET 26 OF 51

B55-27

COLUMBUS DR. EX. SAN. MH

FORREST AVE. EX. SAN. MH

17TH AVE. EX. SAN. MH

EX. SAN. MH

EXISTING GROUND @ ℄ SURVEY EL. 45

S-578

S-580A

S-580

PROFILE GRADE ℄

PROFILE GRADE ℄

PROFILE GRADE ℄

43.85 RT.

43.84 LT.

PI +20.00 (RT) EL. 44.10

PI +50.00 (LT) EL. 44.07

PI +00.00 (LT) EL. 44.30

PI +30.00 (RT) EL. 44.45

PI +60.00 (LT) EL. 44.08

PI +60.00 (RT) EL. 44.00

PI +00.00 (RT) EL. 44.43

PI +00.00 (LT) EL. 44.27

44.47 RT.

44.30 LT.

(+) 0.417% (+) 0.167%

(+) 0.260% (+) 0.153%

(+) 0.153% (-) 0.137%

(+) 0.167% (-) 0.346%

(-) 0.137% (+) 0.136%

(-) 0.346% (+) 0.307%

(+) 0.307%

(+) 0.136%

18" Pipe

18" Pipe

18" Pipe

18" Pipe

FL 39.0

FL 39.2

FL 39.4

EX. 8" SAN. SEWER TO BE LINED WITH C.I.P.P.

EX. 8" SAN. SEWER TO BE LINED WITH C.I.P.P.

EX. 10" VCP SAN. SEWER TO BE LINED WITH C.I.P.P.

44.45

45.02

+99.80 INV. EL. 40.25(N)

+77

+18

HORIZ.: 1" = 40'
VERT.: 1" = 2"

50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32

159+00 160+00 161+00 162+00 163+00 164+00

1=40

C:\PROGRAMFILES\LANDDESKTOP2004\DWG\PIPE\5492-JW-27.DWG

HENRY DORZBACK, P.E. #39449
CHIEF ENGINEER
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
3		
2		

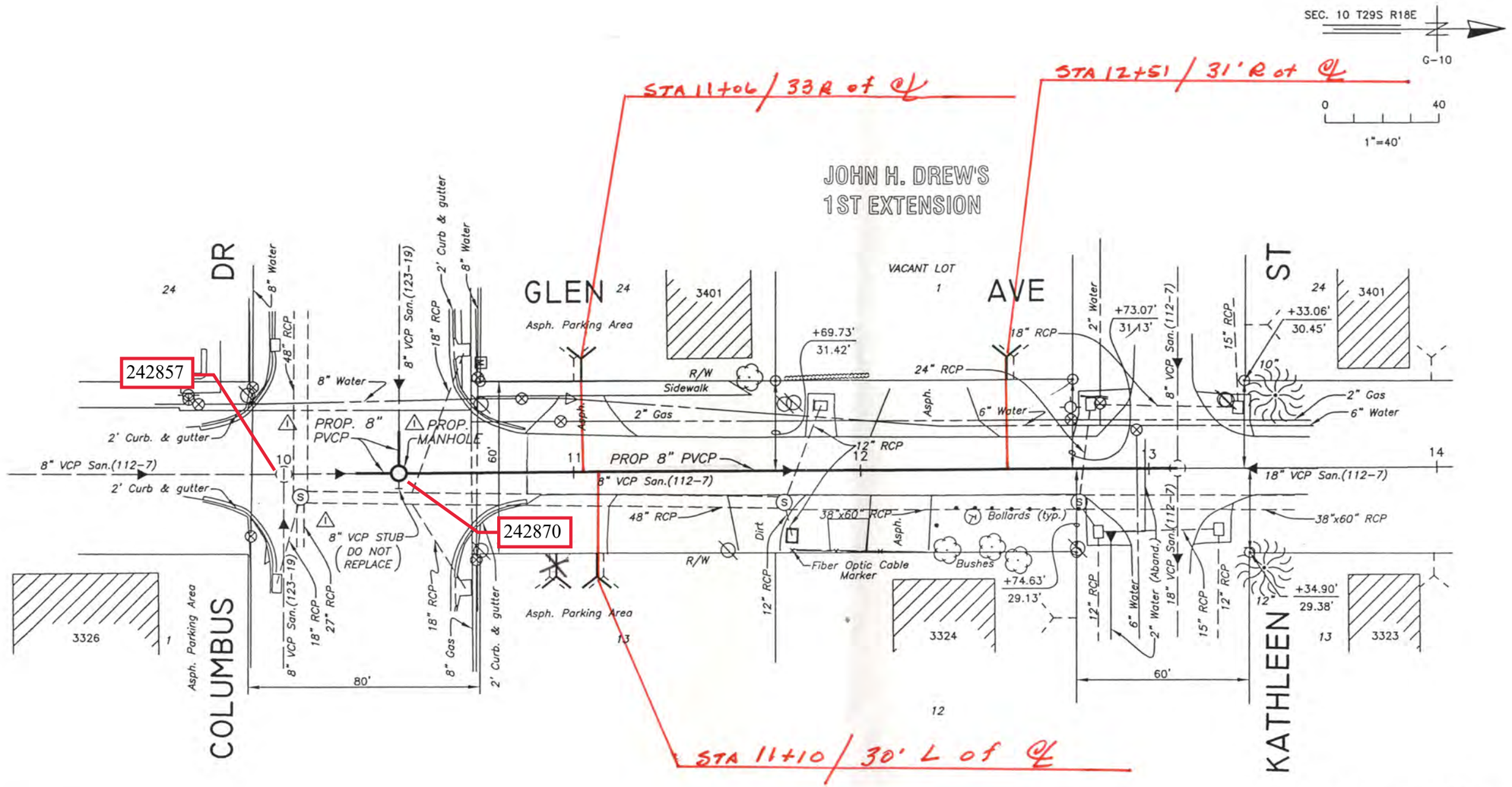
DES: J.P.W.
DRN: BB
CKD: OK
DATE: 10/19/06

CITY of TAMPA
WASTEWATER DEPARTMENT

NEBRASKA AVE.: KENNEDY TO HILLSBOROUGH
REHABILITATION BY C.I.P.P.
PROFILE SHEET

W.O. 5492
SHEET 27 OF 51

B060-015



PLAN

As Built Drawing

C:\PROGRAMFILES\LANDDESKTOP2004\DWG\PIPE\5302 1'=40

ANTHONY LAWRENCE KASPER, P.E. #63093
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT
07/12/07

No.	DATE	REVISIONS
3		
2		
1	06/29/07	ADD PROPOSED MANHOLE & EXTRA PVCP

DES: JPW
DRN: JHJ
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

GLEN AVENUE FROM COLUMBUS DRIVE TO KATHLEEN STREET

W.O. 5302
SHEET 3 OF 8

B060-016

CLASS "C" BEDDING

⚠ PROP. 284'-8" PVCP @ 6'-13" CUT

RIM EL. 34.45

RIM EL. 32.94

Manhole

Storm MH

PROP. MANHOLE (Remove Ex. Manhole)

Storm MH

Storm MH

Manhole

34.35

34.26

34.26

33.34

32.95

2" Aband. Water

6" Water

48" RCP

8" Gas

12" RCP
I.E. 29.92

36"x60" RCP

18" RCP
(AL)

8" Water

24" RCP
I.E. 27.32

48" RCP
I.E. 26.56(W)

Ex. I.E. 24.63(E&W)

8" VCP

18" VCP

8" VCP
I.E. 24.8(E)

8" VCP
I.E. 23.97(W)

⚠ PROP. 12'±-8" PVCP
CONNECT TO EX. VCP
WITH FLEXIBLE ADAPTER

⚠ PROP. 12'±-8"PVCP TO THE WEST.
CONNECT TO EX. VCP WITH FLEXIBLE ADAPTER.
(DO NOT REPLACE 8" STUB TO THE EAST)

PROP. 270'-8" PVCP
@ 0.24% ⚠

18" VCP
I.E. 23.31(E)

REMOVE EX 8" VCP AND
INSTALL NEW 8" PVCP
AT A LOWER ELEV.

NOTE: THE MANHOLE AT STA. 13+10 HAS
A FIBERGLASS LINER IN WHAT IS AN
ASSUMED BRICK MANHOLE.

+00
I.E. 24.84(S)
I.E. 24.80(N)

+5.78
I.E. 26.60(N)

+39.84
Ex. I.E. 24.49(S)

PROP. I.E. 24.59(S)

Ex. I.E. 24.39(N)

PROP. I.E. 24.57(N)

PROP. I.E. 24.63(W)

I.E.(W) 24.47
I.E.(S) 24.53
I.E.(W) 24.49

+73.44
I.E. 26.84(S)
I.E. 27.12(N)

I.E. 23.79(S)

I.E. 27.16(S)
I.E. 27.11(N)

+10.00
Ex. I.E. 24.26(S)

PROP. I.E. 23.93(S)

I.E. 23.51(N)

34
30
26
22
18
14
10

10
11
12
13
14

As Built Drawing

PROFILE

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

1"=40

C:\PROGRAMFILES\LANDESKTOP2004\DWG\PIPE\5302

ANTHONY LAWRENCE KASPER
LICENSE
NO. 63093
STATE OF FLORIDA

ANTHONY LAWRENCE KASPER, P.E. #63093
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT
3/12/07

No.	DATE	REVISIONS
3		
2		
1	06/29/07	ADD PROP. MANHOLE & EXTRA PVCP AND CHANGE SLOPE

DES: JPW
DRN: JHJ
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

GLEN AVENUE FROM COLUMBUS
DRIVE TO KATHLEEN STREET

W.O. 5302
SHEET 4 OF 8

B068-143

FP ID NO. 258399-1-56-04 | SHEET NO. U-17

EQUATION:
STA 280+54.57 BK =
STA 280+55.45 AH

℄ SURVEY (OFFSET 100' RT)

LAUREL STREET

TAMPANIA AVENUE

ARMENIA AVENUE

REMOVE 261 L.F. OF 8" SANITARY SEWER AND 10 HOUSE LATERALS (100 L.F.) FROM MANHOLE H10.43 TO MANHOLE H10.44

REMOVE MANHOLE H10.44
℄ SURVEY STA. 283+24.6, OFFSET 264.0' RT
INV EL (28.30 E,W)
RIM EL 32.0

REMOVE 339 L.F. OF 8" SANITARY SEWER AND 12 HOUSE LATERALS (120 L.F.) FROM MANHOLE H10.44 TO MANHOLE H10.45

REMOVE MANHOLE H10.45
℄ SURVEY STA. 286+68.2, OFFSET 263.0' RT
INV EL (23.82 S)(27.10 W)
RIM EL 31.0

REMOVE MANHOLE H10.43
℄ SURVEY STA. 280+58.3, OFFSET 265.5' RT
INV EL (29.22 E)
RIM EL 33.0

LIMITED ACCESS RIGHT-OF-WAY

FLOWABLE FILL 96 L.F. OF 8" SANITARY SEWER FROM MANHOLE H10.45 TO MANHOLE H10.46

CONSTRUCT MANHOLE H10.46
℄ SURVEY STA. 286+70.3, OFFSET 362.9' RT
INV EL (23.54 S)
RIM EL 31.36

F.D.O.T. RIGHT-OF-WAY

CITY OF TAMPA R/W

LA SALLE STREET

1980094

NOTE:
1. ALL UWHCA WORK SHOWN ON THE SHEET IS INSIDE NORMAL HIGHWAY LIMITS OF CONSTRUCTION. SEE NOTE 2, SHEET U-2.

PLAN

RECORD DRAWING

THIS RECORD DRAWING IS NOT WARRANTED BUT IS BELIEVED TO REPRESENT CONDITIONS UPON COMPLETION OF CONSTRUCTION WITHIN REASONABLE TOLERANCES, BASED UPON THE INFORMATION FURNISHED TO THE ENGINEER FROM THE CONTRACTOR PERTAINING TO CHANGES MADE DURING CONSTRUCTION.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER 61G15-23.003, FAC

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/2010	TYW	RECORD DRAWING REVISIONS			

GREELEY AND HANSEN LLC
1715 NORTH WESTSHORE BLVD, SUITE 464
TAMPA, FLORIDA 33607
CERTIFICATE OF AUTHORIZATION NO. 37
P.E. NAME: THOMAS Y. WILSON
P.E. NO. 40254

SCALE
0 50 100 FT
1"=50'

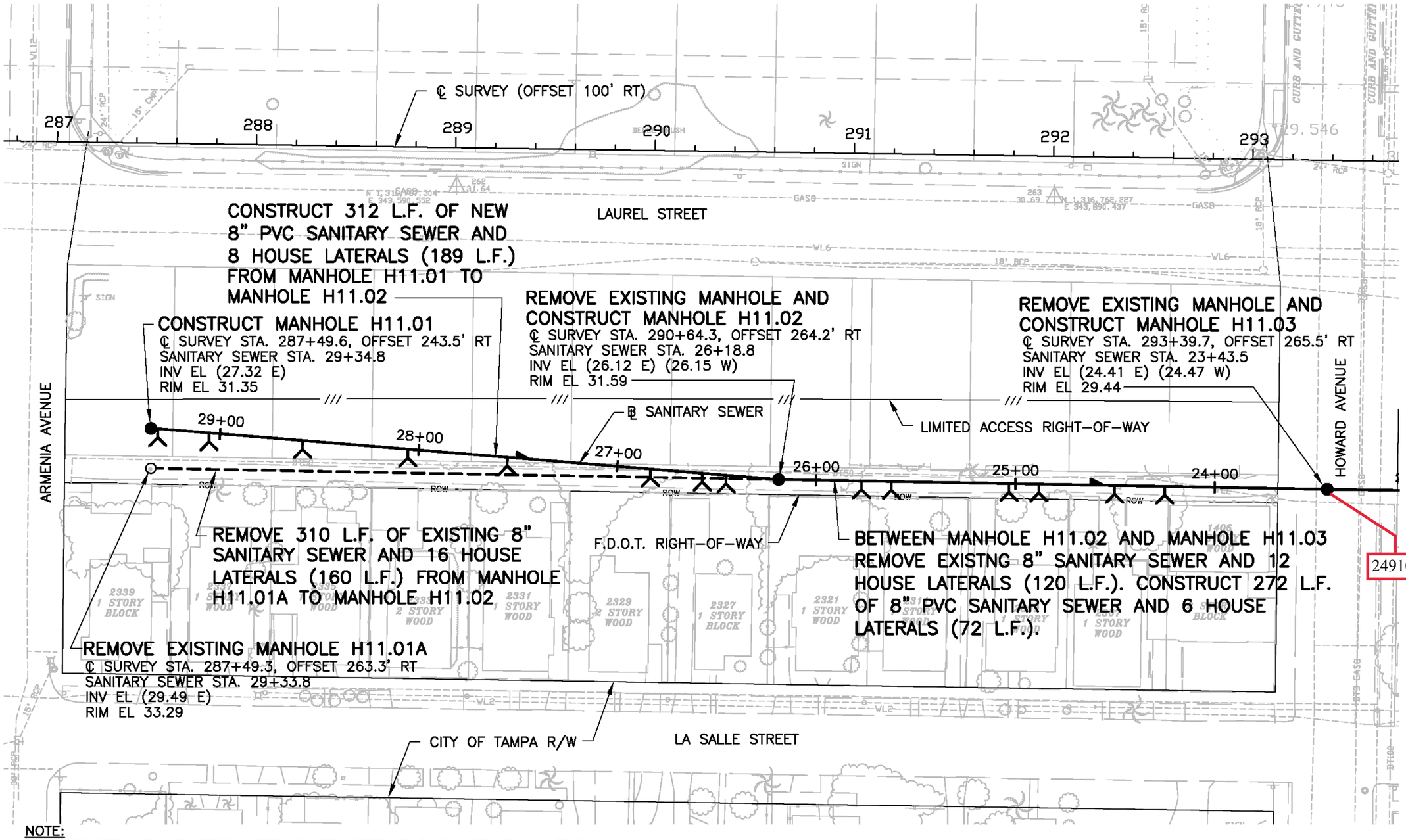
CITY OF TAMPA, FLORIDA
FP ID NO. 258399-1-56-04
INTERSTATE 275 SANITARY SEWER ADJUSTMENTS

PLAN
ALLEY SOUTH OF LAUREL STEET AND ARMENIA AVENUE
STA. 280+58 TO STA. 286+68

FILE NAME PLANUW17
SHEET U-17
DATE JANUARY 2010 | REV 0

B068-144

FP ID NO. 258399-1-56-04 | SHEET NO. U-18



NOTE:

1. CONSTRUCT AND RECONNECT HOUSE LATERALS SHOWN TO R.O.W. FROM MANHOLE H11.01 TO MANHOLE H11.03. PROVIDE TEMPORARY SANITARY SEWER SERVICE TO HOMES DURING CONSTRUCTION.
2. ALL UWHCA WORK SHOWN ON THIS SHEET IS INSIDE NORMAL HIGHWAY LIMITS OF CONSTRUCTION. SEE NOTE 2, SHEET U-2.

PLAN

RECORD DRAWING

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/2010	TYW	RECORD DRAWING REVISIONS			

GREELEY AND HANSEN LLC
1715 NORTH WESTSHORE BLVD, SUITE 464
TAMPA, FLORIDA 33607
CERTIFICATE OF AUTHORIZATION NO. 37
P.E. NAME: THOMAS Y. WILSON
P.E. NO. 40254

SCALE 0 50 100 FT
1"=50'

CITY OF TAMPA, FLORIDA
FP ID NO. 258399-1-56-04
INTERSTATE 275 SANITARY SEWER ADJUSTMENTS

PLAN
ALLEY SOUTH OF LAUREL STREET – ARMENIA AVENUE TO HOWARD AVENUE
STA. 287+49 TO STA. 293+39

FILE NAME PLANUW18
SHEET U-18
DATE JANUARY 2010 | REV 0

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER 61G15-23.003, FAC

U-18, 2/11/2010 9:56:42 AM