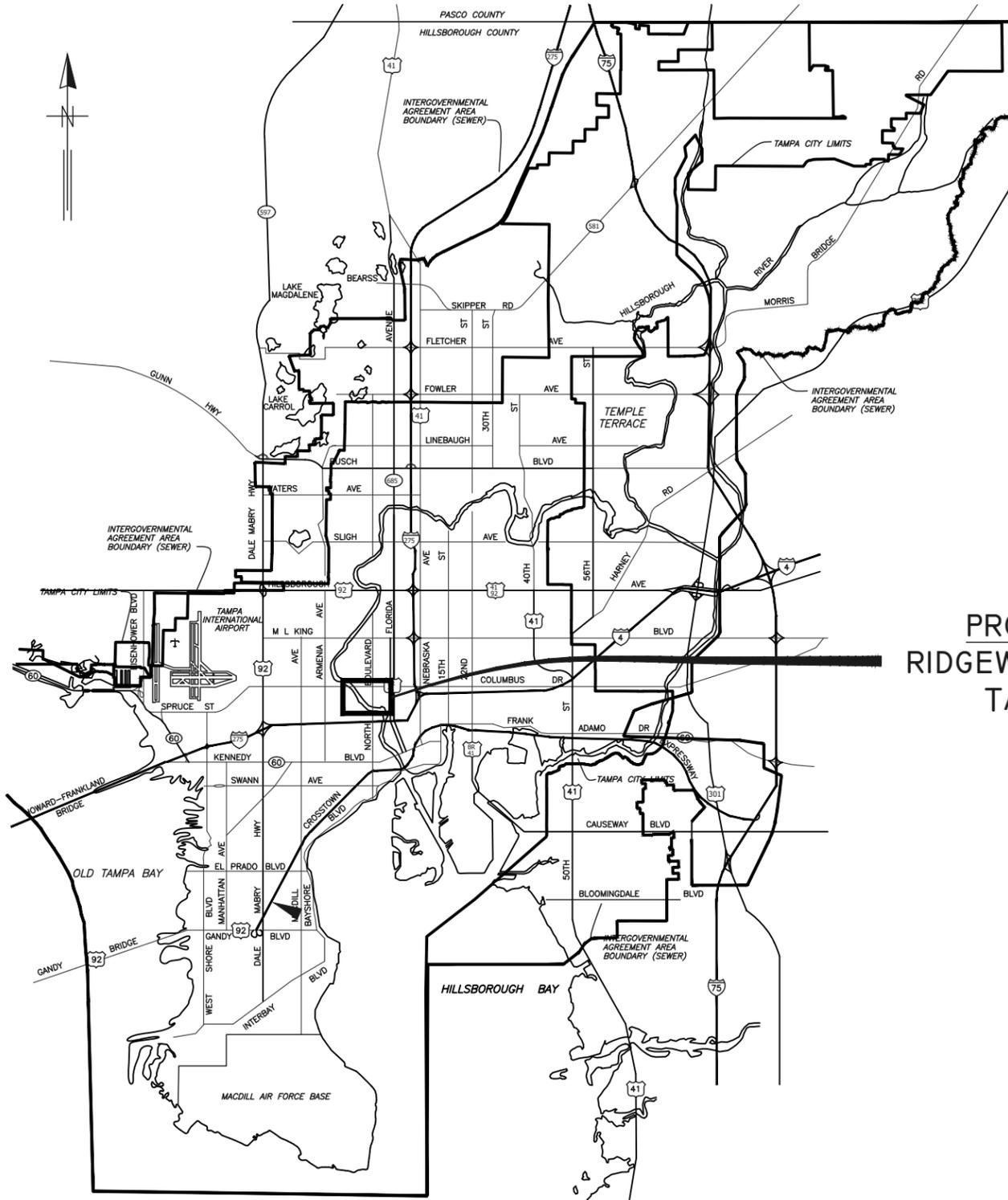


LOCATION MAP



CITY of TAMPA



PROJECT LOCATION
 RIDGEWOOD NEIGHBORHOOD
 TAMPA, FL 33602

WASTEWATER DEPARTMENT ENGINEERING DIVISION

PLANS FOR RIDGEWOOD COLLECTION SYSTEM REHABILITATION BY CIPP

CONTRACT No. 21-C-00014

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.

No.	DATE	REVISIONS
1		
2		
3		

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

DES: DR
 DRN: DR
 CKD: ----
 DATE: Dec-2020

CITY of TAMPA
 WASTEWATER DEPARTMENT

RIDGEWOOD COLLECTION SYSTEM
 REHABILITATION BY CIPP
 COVER SHEET

SHEET

1

GENERAL NOTES

1. THE SCOPE OF THIS PROJECT SHALL CONSIST OF REHABILITATION OF 8" DIA, 12" DIA & 15" DIA WASTEWATER GRAVITY PIPELINES BY INSTALLATION OF CURED IN PLACE PIPE LINER AND ALL APPURTENANCE ASSOCIATED WITH COMPLETION OF THE PROJECT. PROJECT ALSO INCLUDES REHABILITATION OF MANHOLE STRUCTURES VIA INSTALLATION OF STRUCTURAL COATING SYSTEM.
2. SHEETS 8-12 ARE THE EXISTING AS-BUILTS OF THE SEWER PIPE TO BE REHABILITATED.
3. DURING THE MOT, CONTRACTOR MUST MAINTAIN ACCESS TO ALL DRIVEWAYS FOR THE DURATION OF THE PROJECT.
4. 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/](http://aca.tampagov.net/)
5. 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.
6. 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.
7. BYPASS PUMPS SHALL BE CAPABLE OF DELIVERING A MINIMUM OF 350 GPM FOR 8" PIPE, 800 GPM FOR 12" PIPE & 1,200 GPM FOR 15" 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. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. BYPASS METHOD SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER.
8. BYPASSING THE 15" INFLUENT PIPE TO RIDGEWOOD PUMP STATION WILL REQUIRE CONNECTING BYPASS PUMPS INTO THE EXISTING PUMP STATION DISCHARGE MANIFOLD BYPASS TEE. COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN 15" PIPE BYPASS LINE ITEM. BYPASS PUMP SHALL BE SIZED FOR 1,200 GPM @ 43.0 FT TDH.
9. THE PROPOSED LINER THICKNESS FOR THE 8" SEWER SHALL BE 0.236" THICK. CIPP LINER FOR 12" & 15" SEWERS SHALL BE 0.295" THICK.
10. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING, SPRINKLER SYSTEM PIPING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.
11. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH WASTEWATER PERSONNEL AND PUMPING STATION OPERATIONS.
12. OSHA STANDARD EQUIPMENT SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
13. THIS PROJECT INCLUDES REHABILITATION OF MANHOLES BY APPLICATION OF A STRUCTURAL COATING SYSTEM AND ALL APPURTENANCES 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.

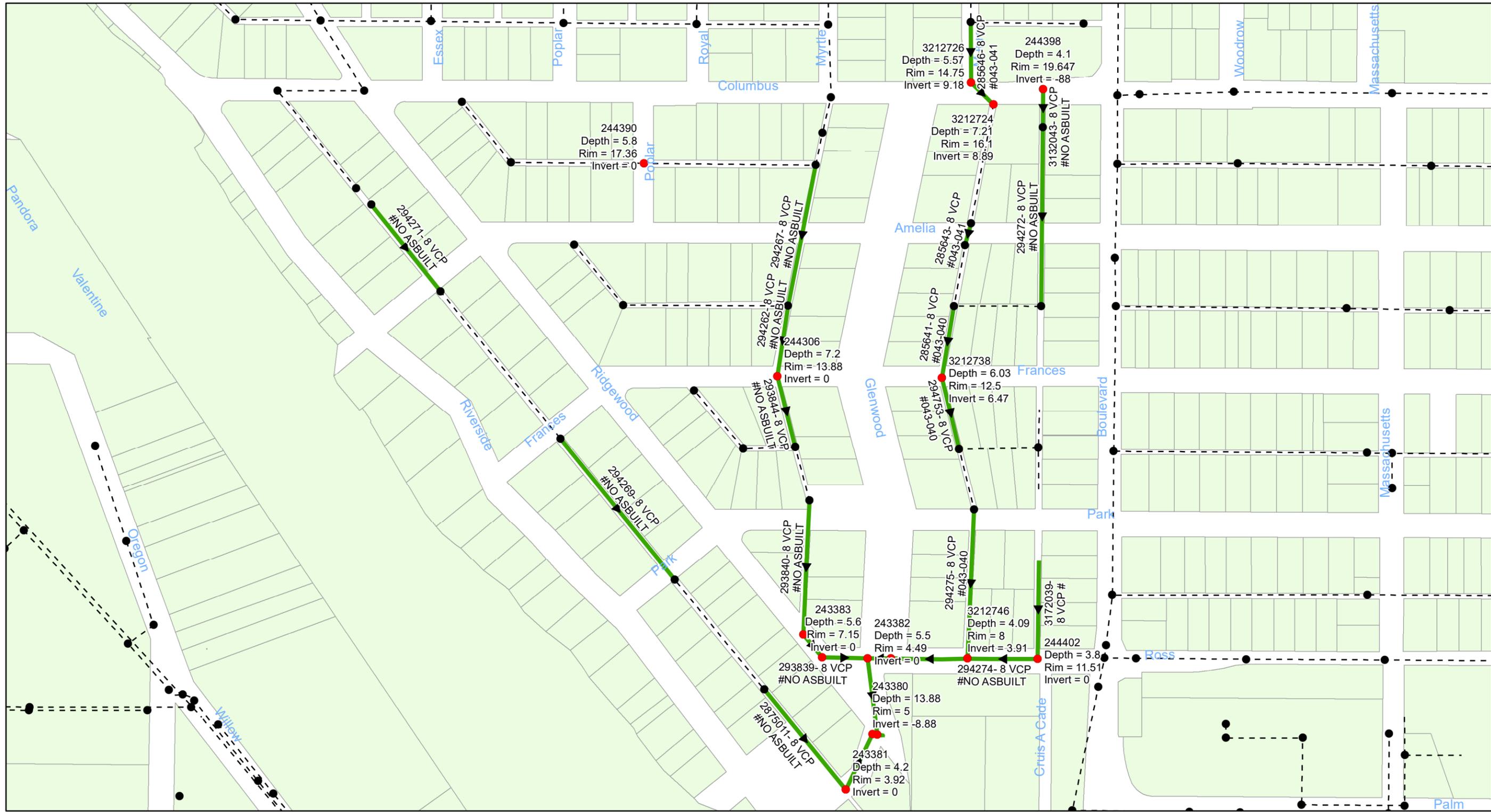
PROPOSED MANHOLE COATING SYSTEM THICKNESS	
Location	Coating System
Manhole Barrel	250 MILS (MIN)
Manhole Benches	250 MILS (MIN)

INDEX	
SHT. NO.	DESCRIPTION
1	COVER SHEET
2	NOTE AND INDEX
3	OVERALL PROJECT LOCATION MAP
4-5	AREA MAPS - RIDGEWOOD NEIGHBORHOOD
6	MANHOLE REHABILITATION DETAIL
7	MANHOLE DETAIL
8-12	WASTEWATER RECORD DRAWINGS FOR REFERENCE **

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

K:\wastewater\projects\ridgewood\wastewater collection system rehabilitation by cipp\lining\Design\Plans\Ridgewood CIPP Lining.dwg

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: DR DRN: DR CKD: ---- DATE: Dec-2020	CITY of TAMPA WASTEWATER DEPARTMENT	RIDGEWOOD COLLECTION SYSTEM REHABILITATION BY CIPP	NOTES & INDEX	SHEET 2
	1							
	2							
	3							



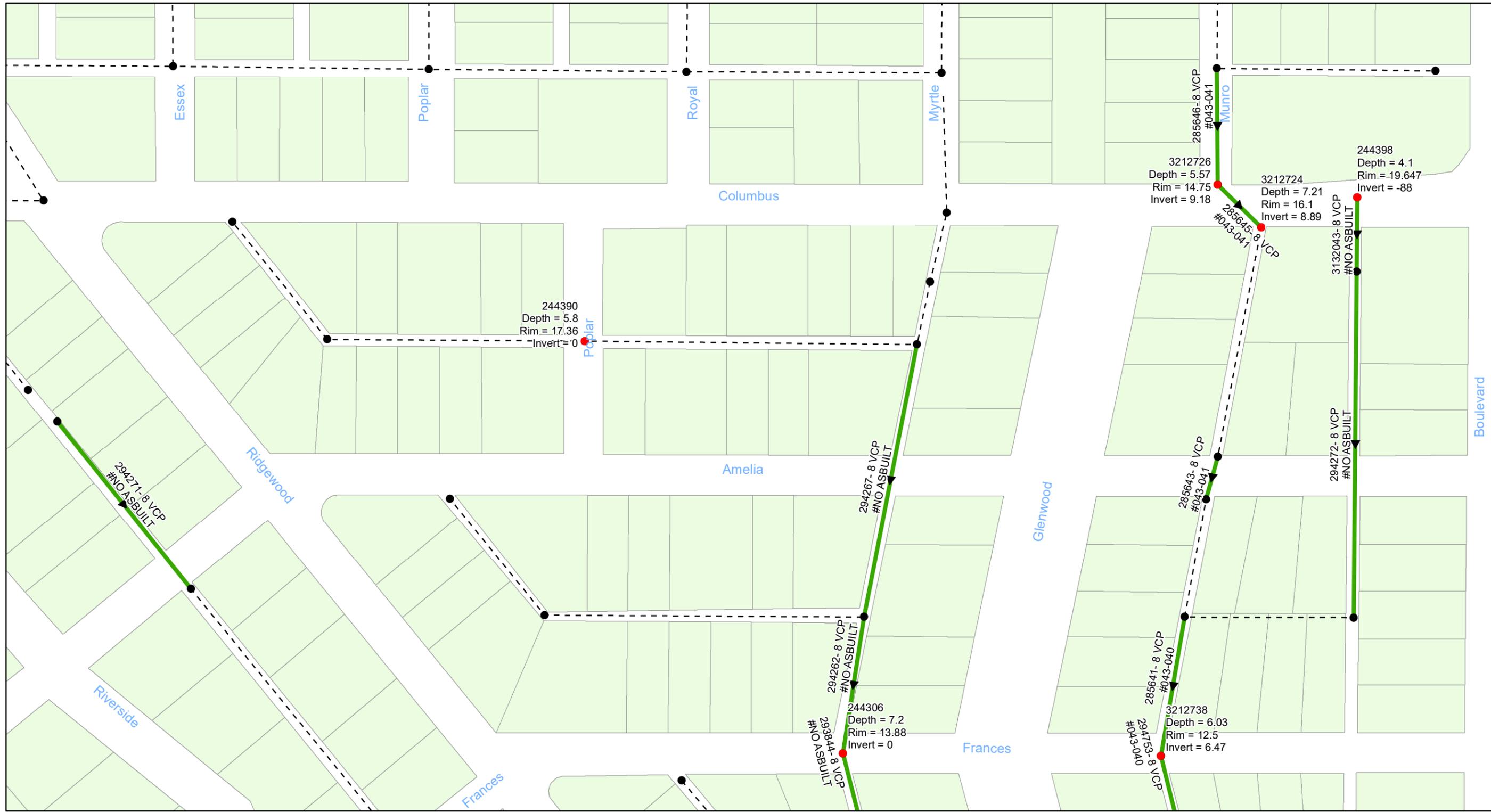
Ridgewood Park

City of Tampa Wastewater Department

Legend

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





0 0.0175 0.035 0.07 Miles

Ridgewood Park
City of Tampa Wastewater Department

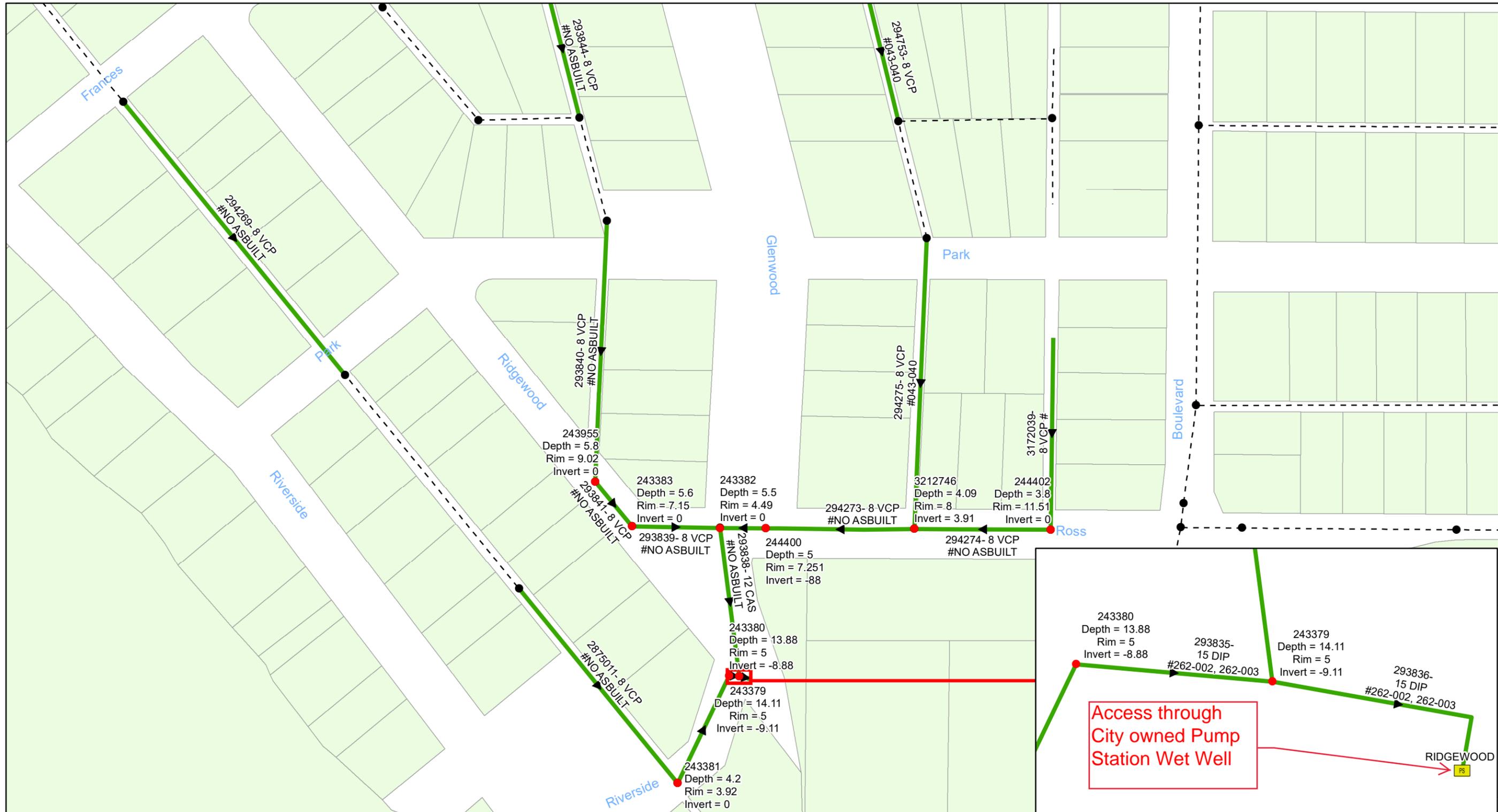
Legend

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



Sheet No.
4





0 0.0175 0.035 0.07 Miles

Ridgewood Park

City of Tampa Wastewater Department

Legend

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



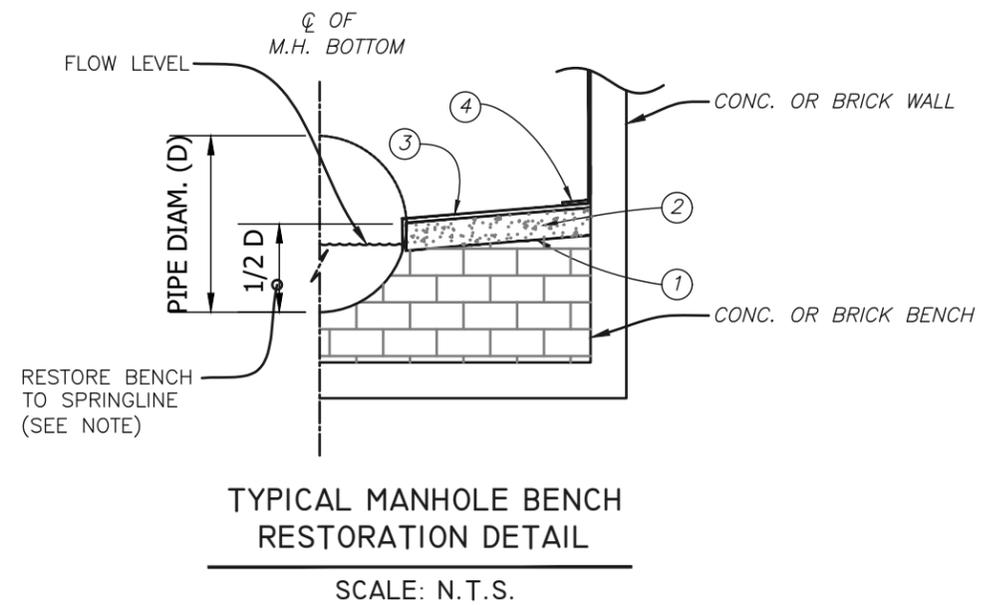
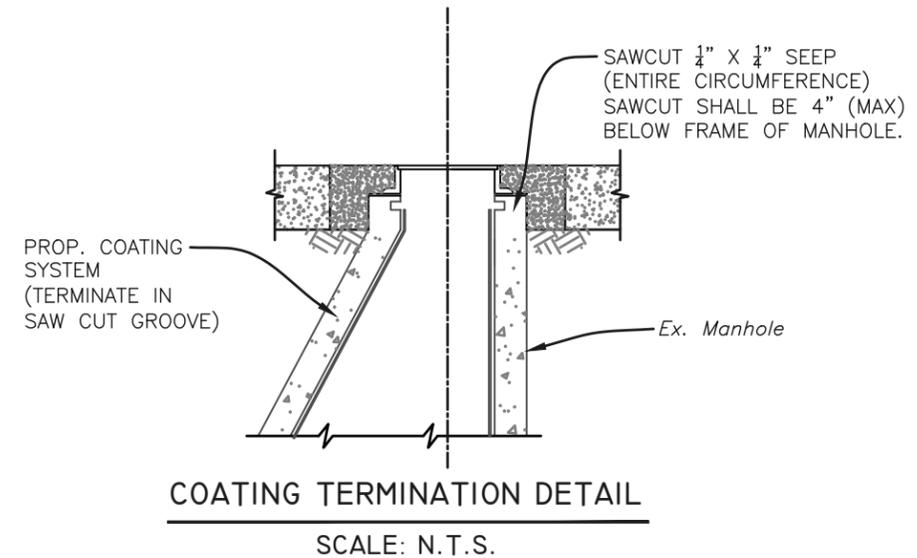
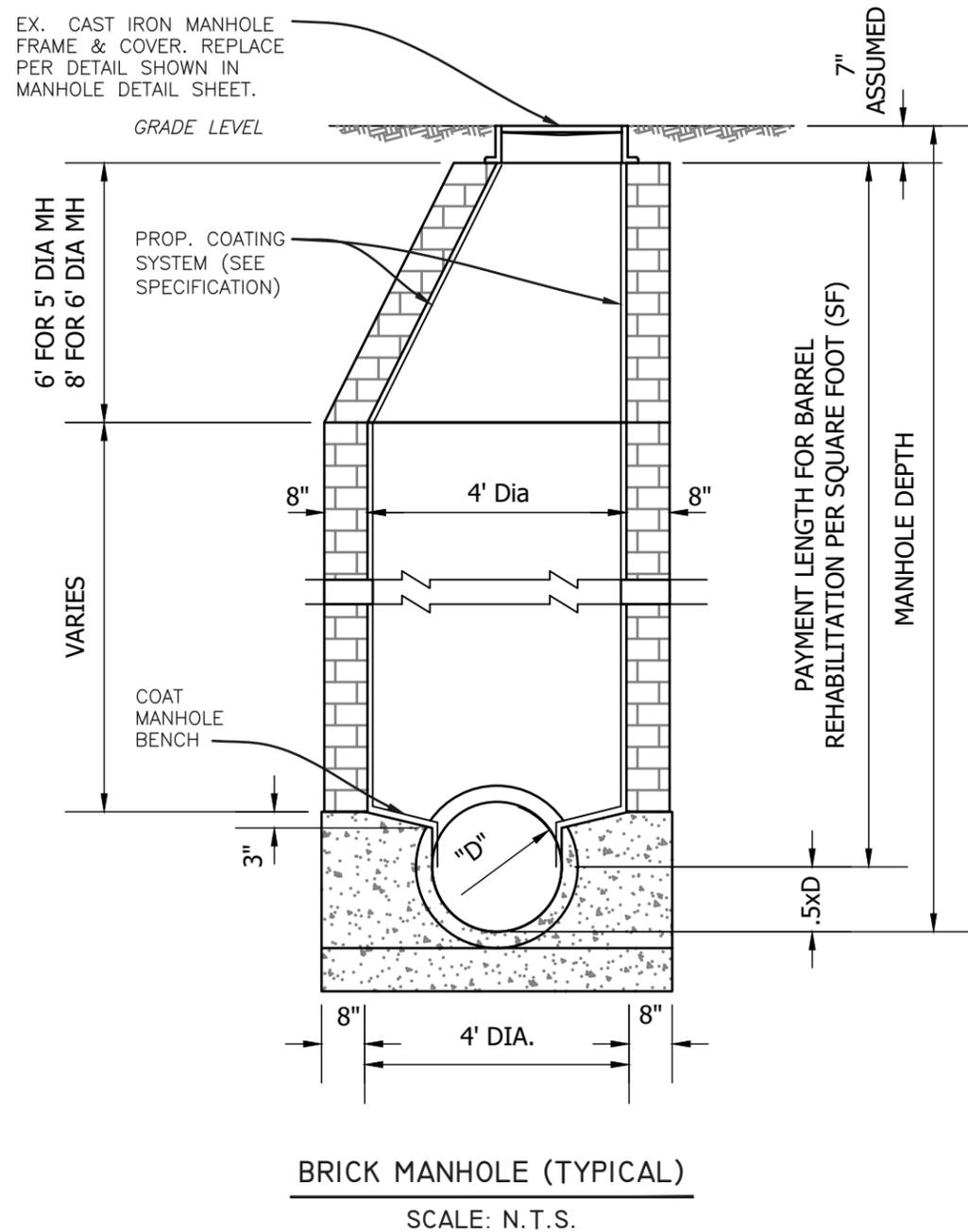
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5



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.



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DATE: Dec-2020

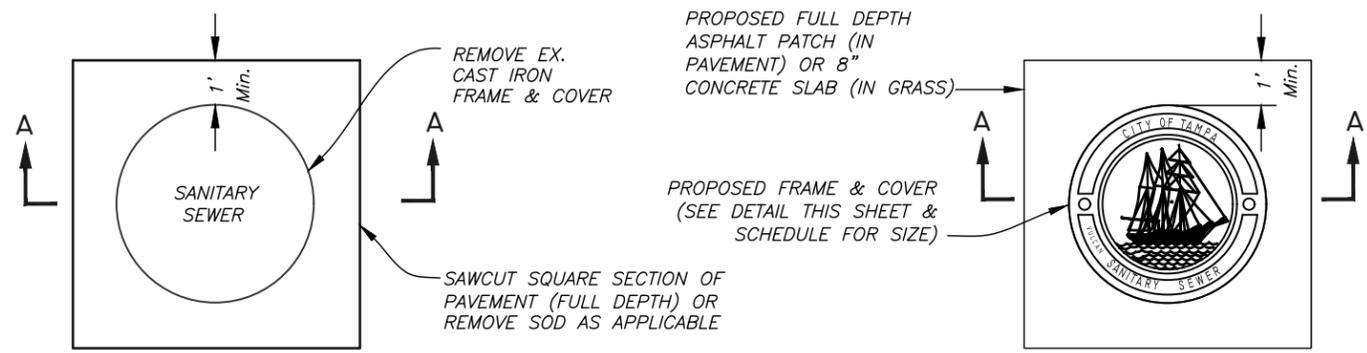
CITY of TAMPA
WASTEWATER DEPARTMENT

RIDGEWOOD COLLECTION SYSTEM
REHABILITATION BY CIPP
MANHOLE REHABILITATION DETAIL

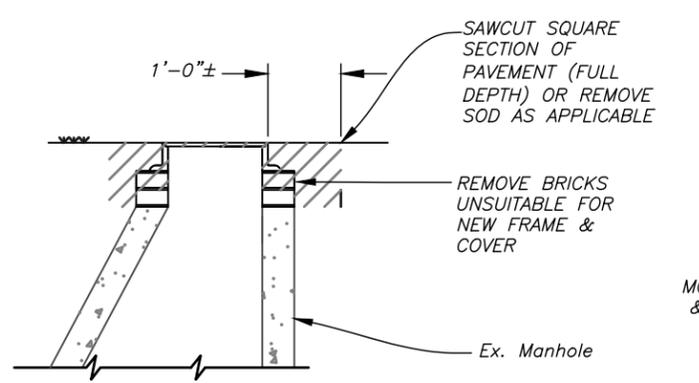
SHEET
6

NOTES

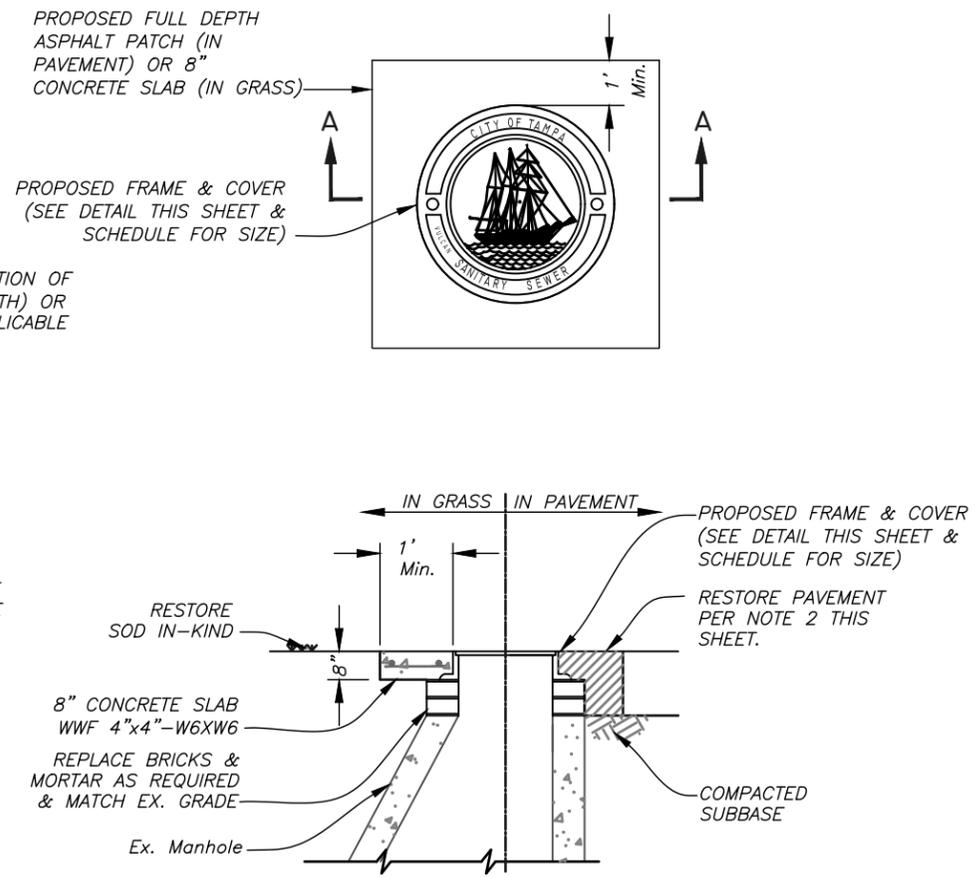
1. ALL COVERS UNDER THIS CONTRACT ARE SMALL COVERS.
2. PAVEMENT RESTORATION SHALL CONSIST OF 12" PERMANENT BASE (CRUSHED CONCRETE OR CRUSHED LIMEROCK BASE) AND PERMANENT ASPHALT SUPERPAVE PAVEMENT, UNLESS OTHERWISE NOTED. IF LOCATED IN D.O.T. ROW, AN ADDITIONAL 1 1/2" SUPER PAVE ASPHALT IS REQUIRED.



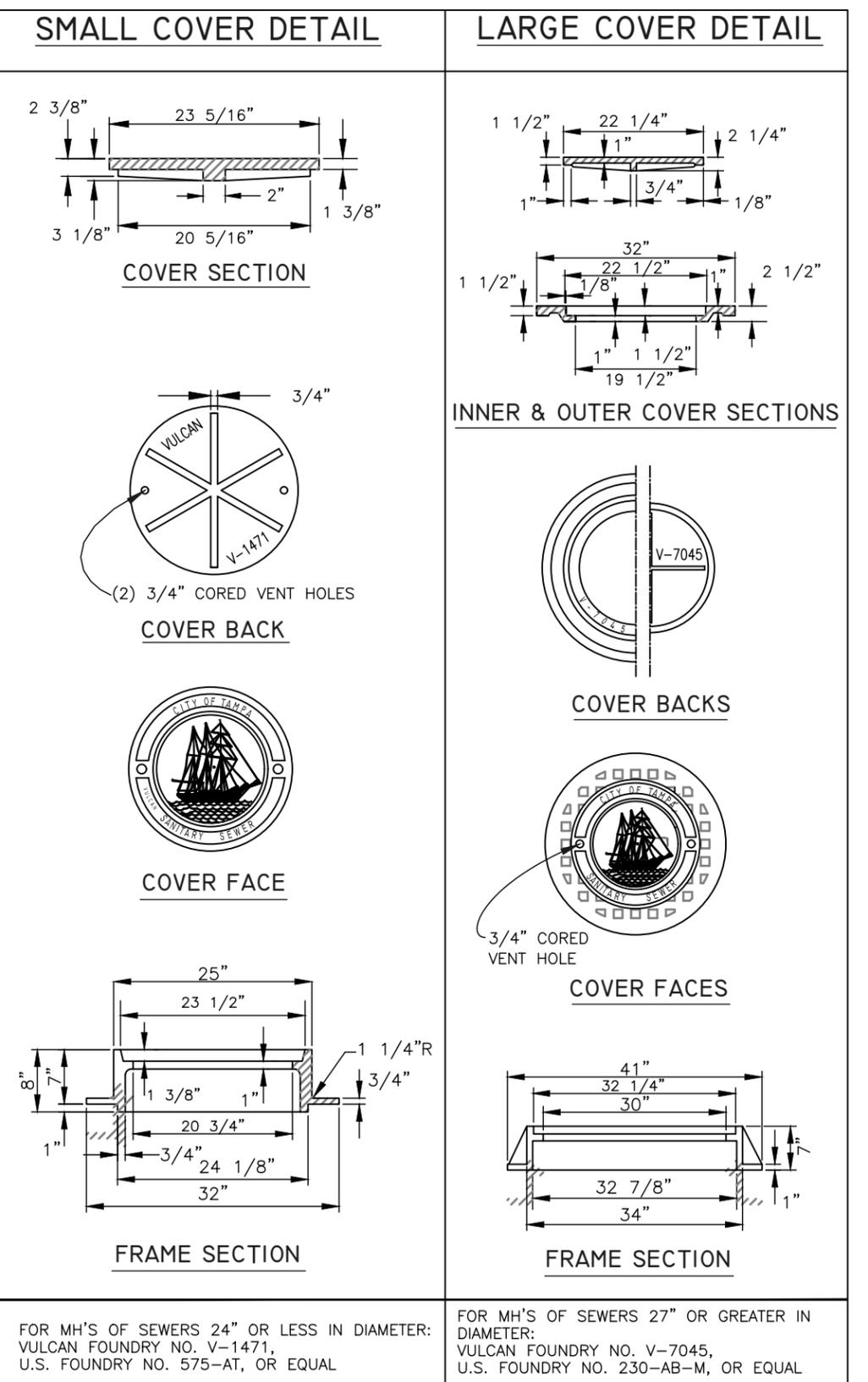
PLAN



**SECTION A-A
REMOVAL DETAIL**



**SECTION B-B
REPLACEMENT
DETAIL**



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

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

HEAVY DUTY CAST IRON MANHOLE FRAME & COVER DETAILS

K:\wastewater projects\ridgewood wastewater collection system rehabilitation by cipp lining\Design\Plans\Ridgewood CIPP Lining.dwg

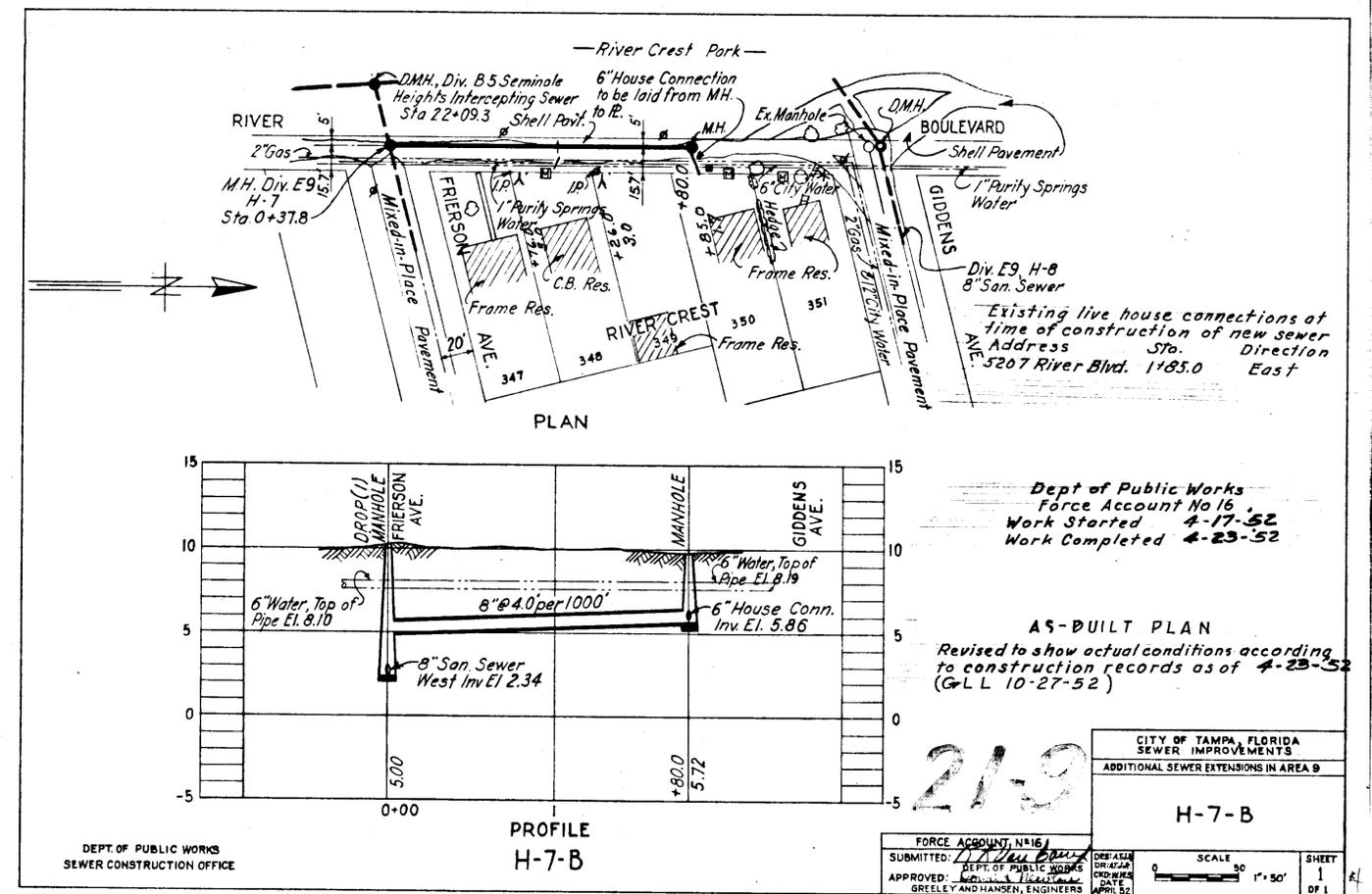
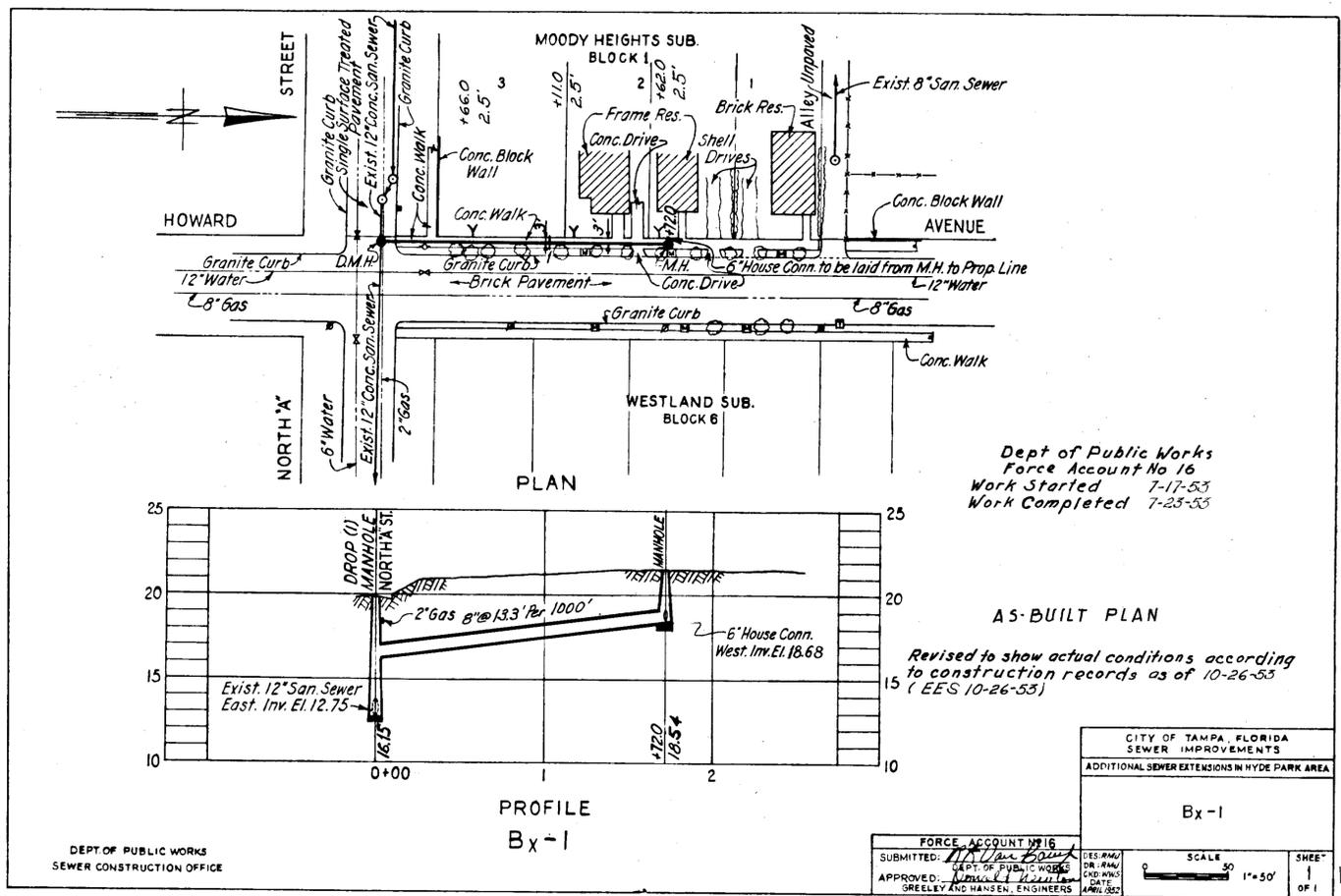
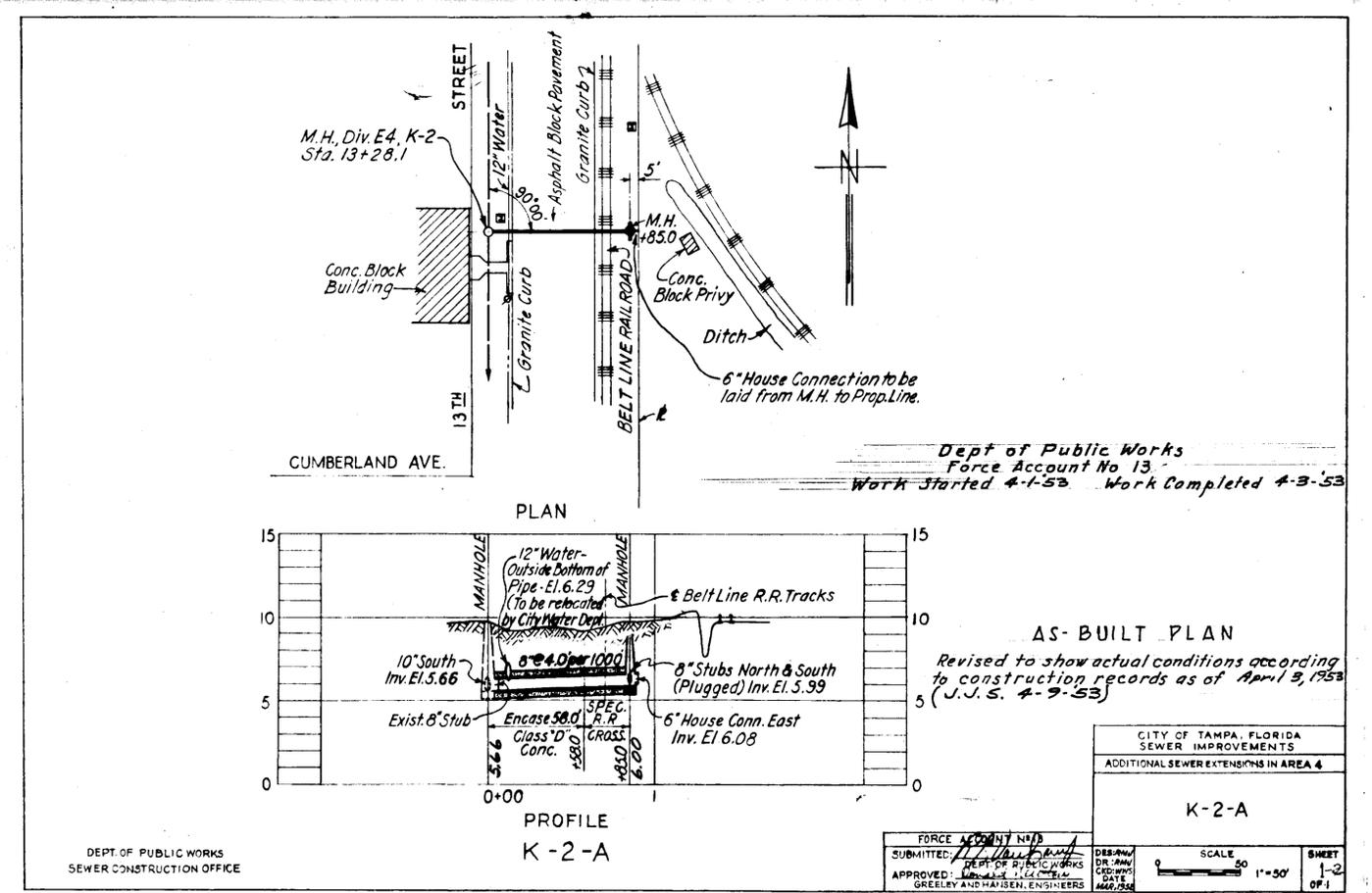
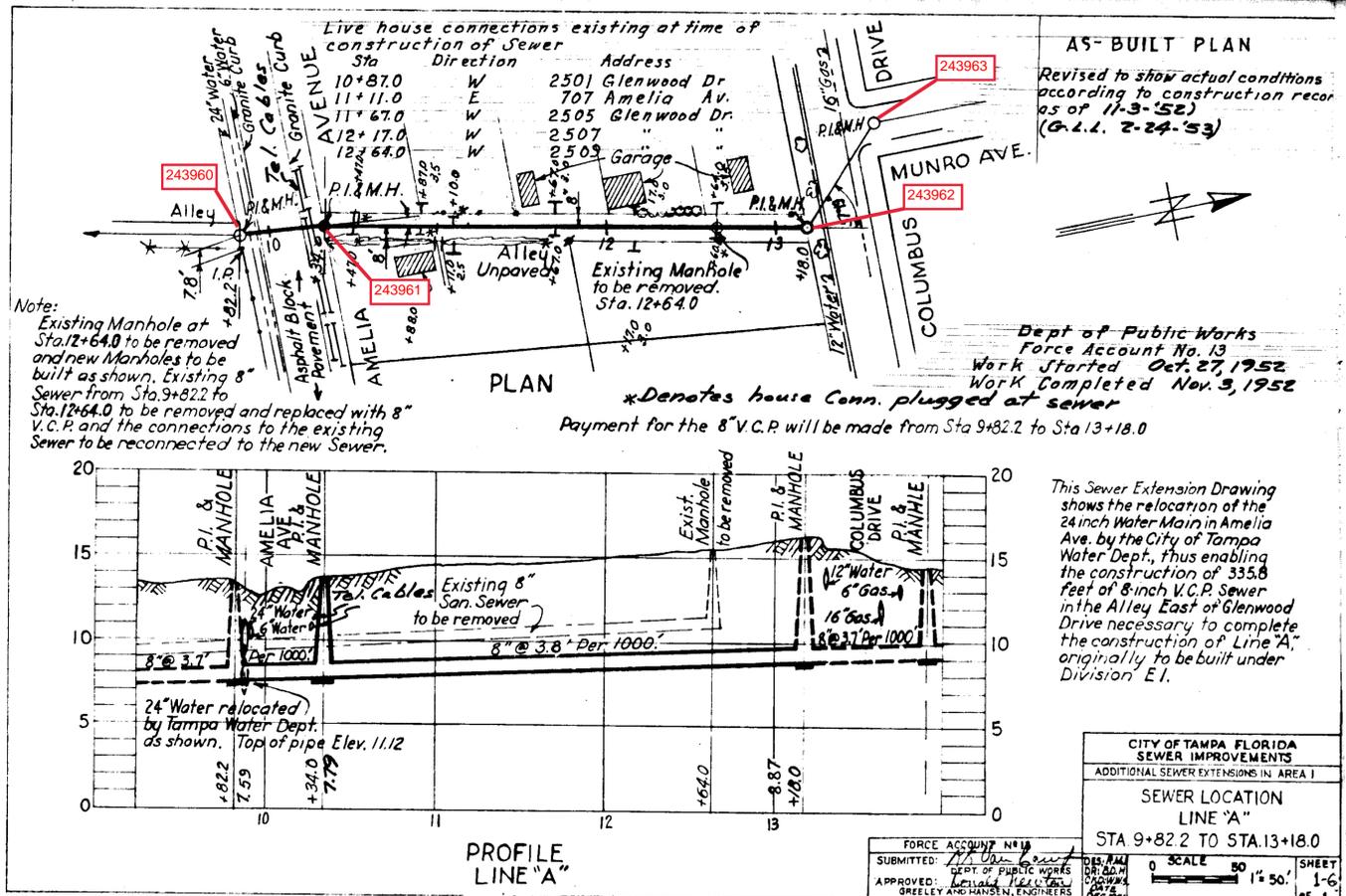
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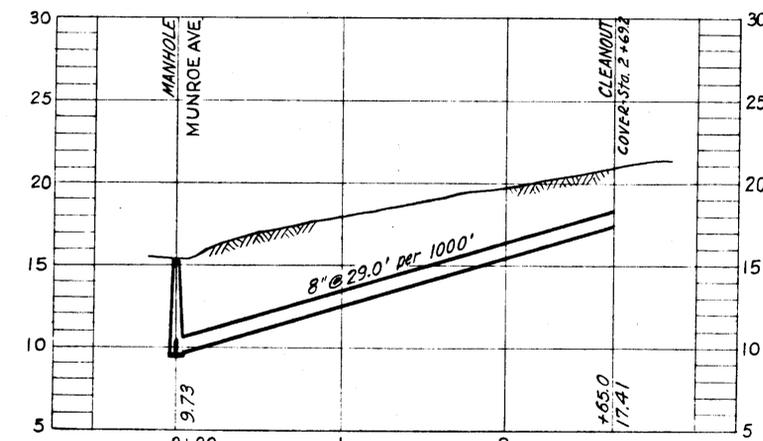
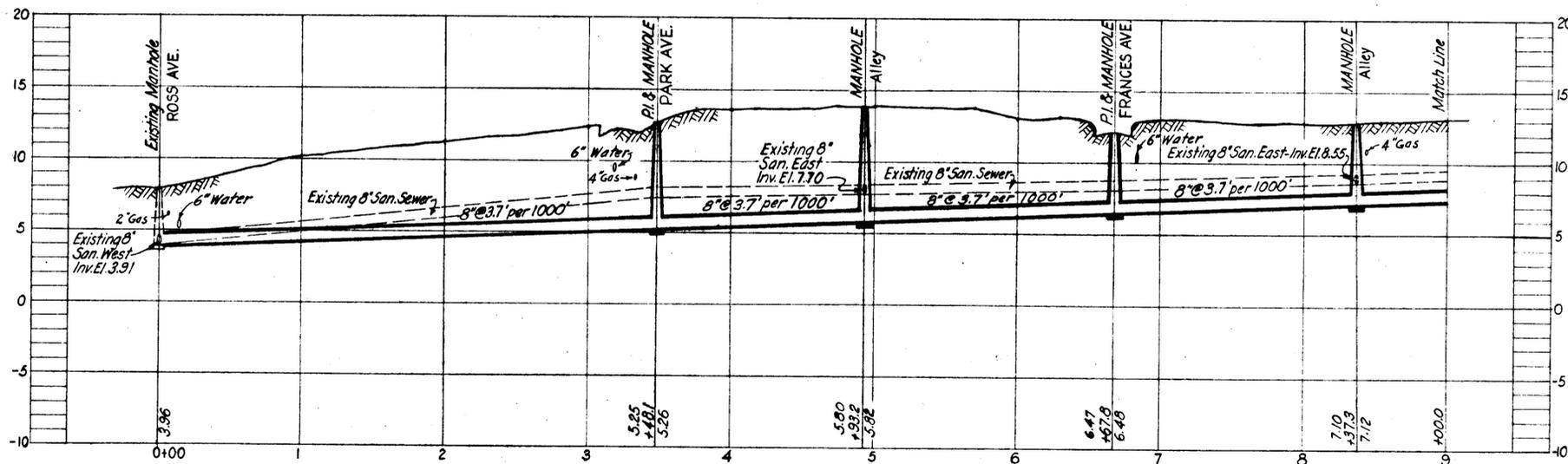
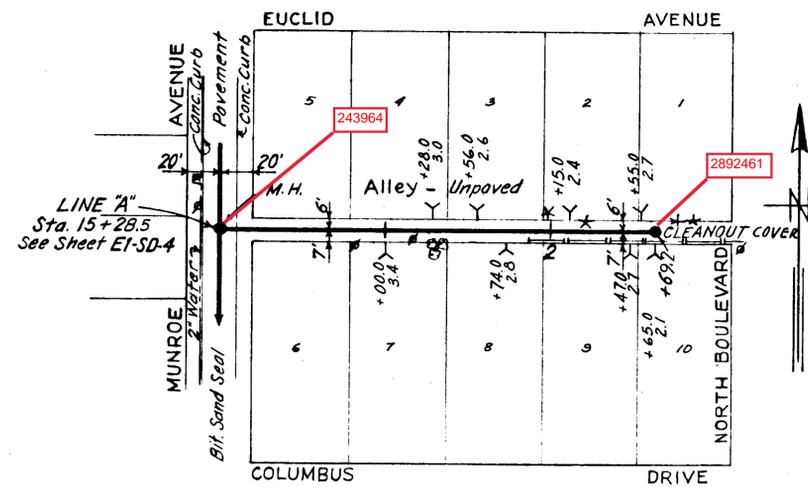
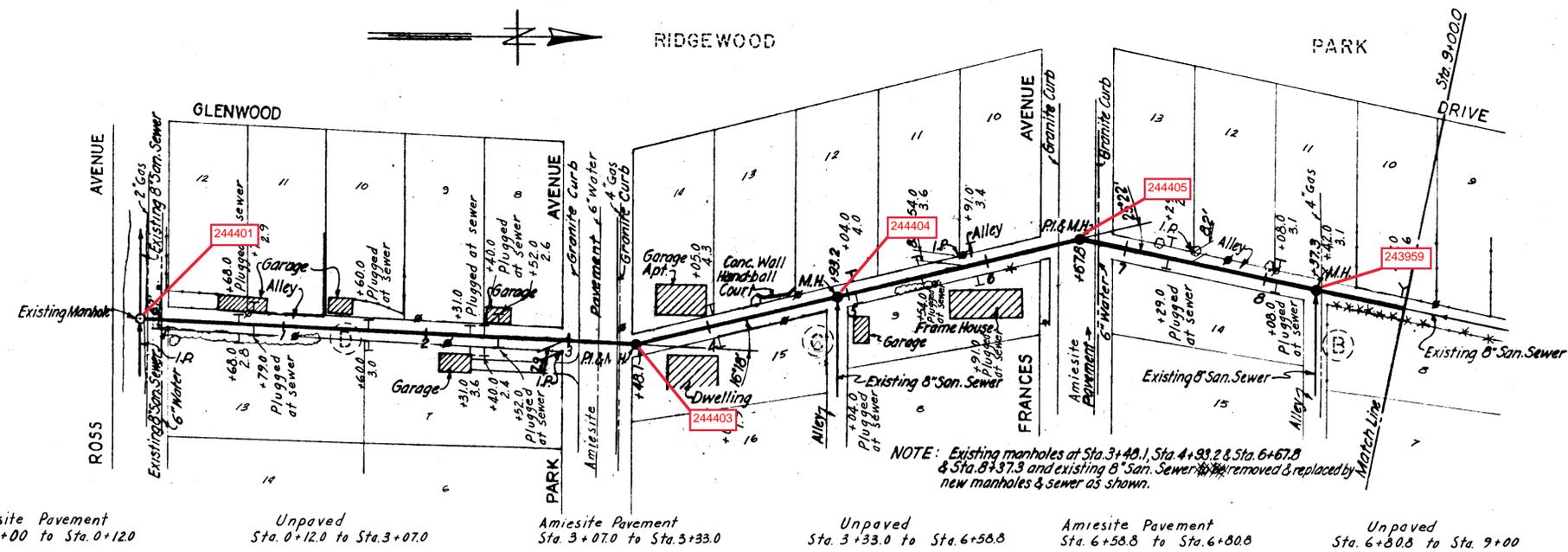
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CKD: ----
DATE: Dec-2020

CITY of TAMPA
WASTEWATER DEPARTMENT

RIDGEWOOD COLLECTION SYSTEM
REHABILITATION BY CIPP
MANHOLE DETAIL

SHEET
7





PROFILE LINE "A"

SEC. MAP NO.	LINE NO.
H-11-53	

Existing Live House Connections at time of construction of new sewer.

711 W. Ross Ave.	0+68.0	E
2201 Glenwood Dr.	0+79.0	W
2205 Glenwood Dr.	1+60.0	E
2207 Glenwood Dr.	2+31.0	E
710 W. Park Ave.	2+40.0	E
708 W. Park Ave.	2+52.0	W
707 W. Park Ave.	4+05.0	E
709 1/2 W. Park Ave.	4+05.0	E
2305 Glenwood Dr.	5+04.0	W
2307 Glenwood Dr.	5+54.0	W
714 W. Francis St.	5+91.0	W
2309 Glenwood Dr.	5+91.0	E
2401 Glenwood Dr.	7+29.0	W
2403 Glenwood Dr.	8+08.0	W
2405 Glenwood Dr.	8+42.0	W
2407 Glenwood Dr.	8+97.0	W
2409 Glenwood Dr.	9+34.0	W

SEC. MAP NO.	LINE NO.
G-11-95	

NOTE

This Supplementary Drawing shows the relocation of Sewers W-5-L and W-5-L-1 in Division E1, affected by the design of the Plymouth Street Storm Sewer at Warren Ave. and Myrtle Ave, as requested by Dept. of Public Works. This drawing should be used in conjunction with Supplementary Drawing E1-SD-4.

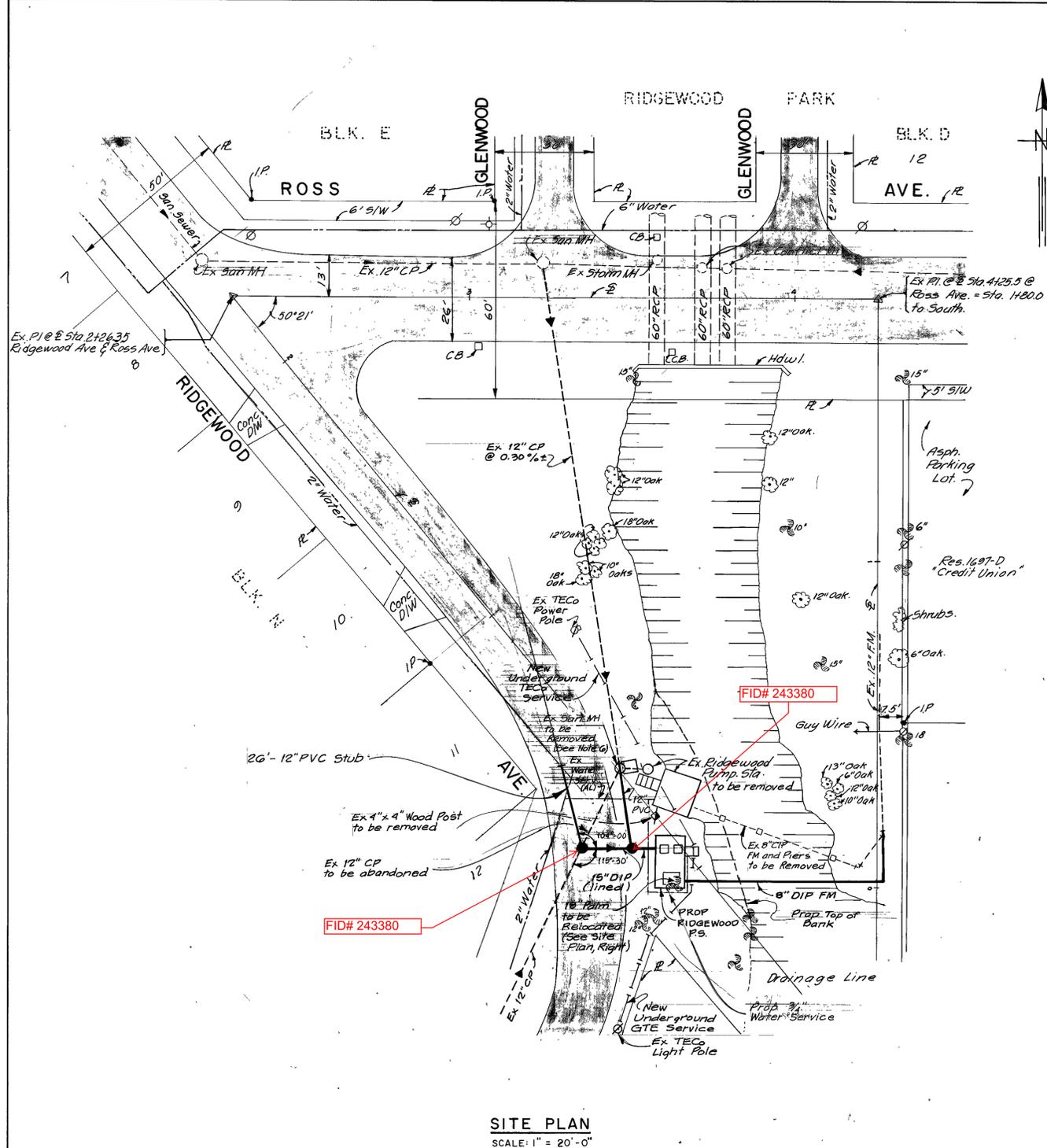
CITY OF TAMPA, FLORIDA SEWER IMPROVEMENTS
SUPPLEMENTARY DRAWING - DIVISION E1
SEWER LOCATION LINE "A" - STA. 0+00.0 TO STA. 9+00.0 AND LINE "B" - STA. 0+00 TO STA. 2+65.0

GREELEY AND HANSEN
 ENGINEERS
 CHICAGO, ILL.

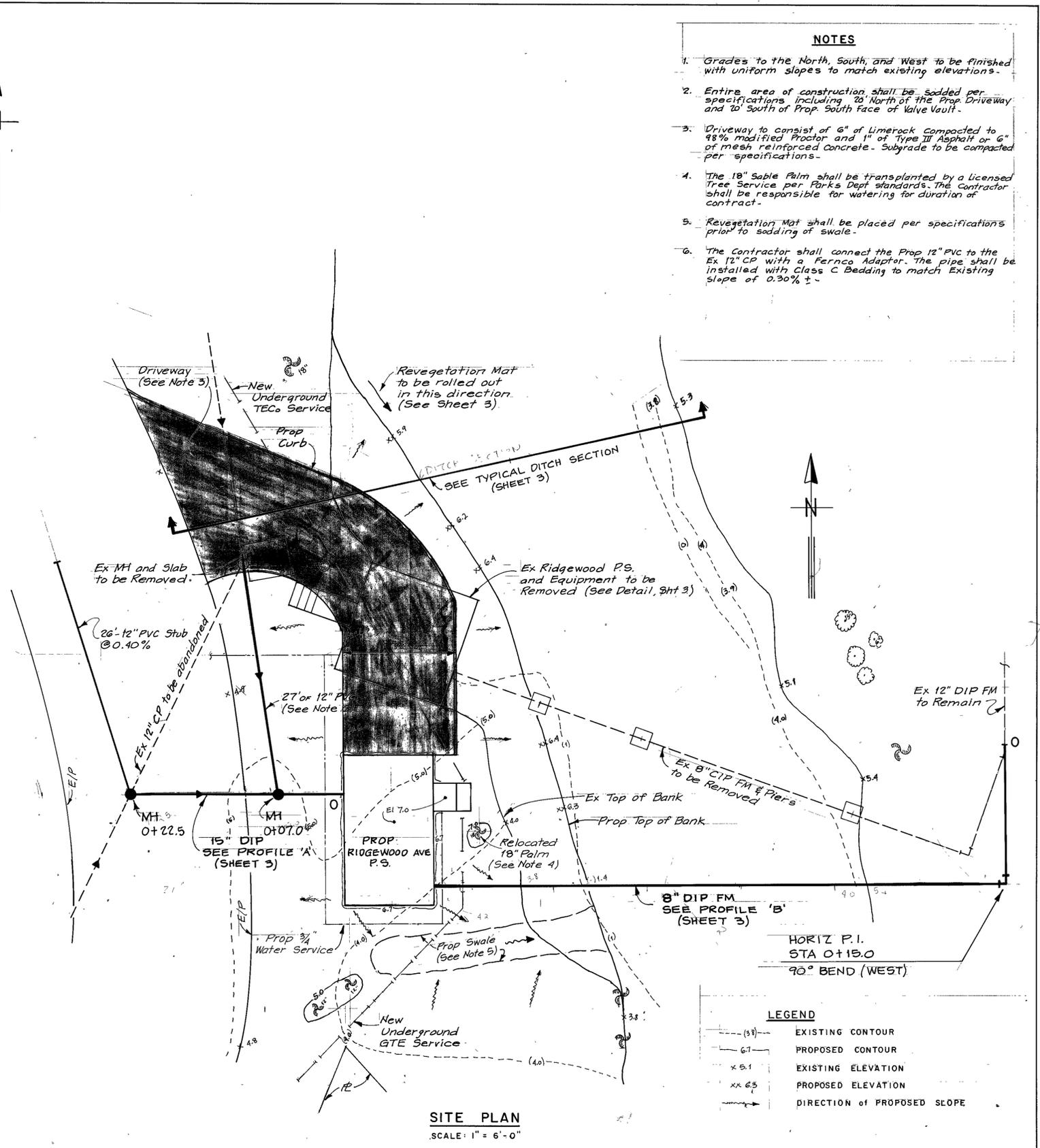
-AS-BUILT PLAN-
 Revised to show actual conditions according to construction records as of Nov. 14, 1950
 (A. F. L. 5-9-51)

DES. R.M.U.	DR. R.M.U.	CKD. W.W.S.	DATE	SCALE	SHEET
			JUNE 30, 1950	1" = 50'	E1-SD3

043-040.pdf



SITE PLAN
SCALE: 1" = 20'-0"



SITE PLAN
SCALE: 1" = 6'-0"

NOTES

1. Grades to the North, South, and West to be finished with uniform slopes to match existing elevations.
2. Entire area of construction shall be sodded per specifications including 20' North of the Prop. Driveway and 20' South of Prop. South Face of Valve Vault.
3. Driveway to consist of 6" of Limerock Compacted to 98% modified Proctor and 1" of Type III Asphalt or 6" of mesh reinforced concrete. Subgrade to be compacted per specifications.
4. The 18" Sable Palm shall be transplanted by a licensed Tree Service per Parks Dept standards. The contractor shall be responsible for watering for duration of contract.
5. Revegetation Mat shall be placed per specifications prior to sodding of swale.
6. The Contractor shall connect the Prop 12" PVC to the Ex 12" CP with a Fernco Adaptor. The pipe shall be installed with Class C Bedding to match Existing slope of 0.30% ±.

LEGEND

- (S) --- EXISTING CONTOUR
- PROPOSED CONTOUR
- x 5.1 EXISTING ELEVATION
- xx 6.5 PROPOSED ELEVATION
- DIRECTION OF PROPOSED SLOPE

HORIZ. P.I.
STA 0+15.0
90° BEND (WEST)

262-002.pdf

Andrew T. Cronberg
ANDREW T. CRONBERG, P.E. # 32566
CHIEF ENGINEER
DEPARTMENT OF SANITARY SEWERS

DES: A. H.
DRN: E. R. /CS
CKD: DW
DATE: 7-8-88

APPROVED BY
Jack P. Morris
JACK P. MORRIS, P.E.
DIRECTOR
DEPARTMENT OF SANITARY SEWERS

NO.	DATE	REVISIONS
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SCALE
AS SHOWN

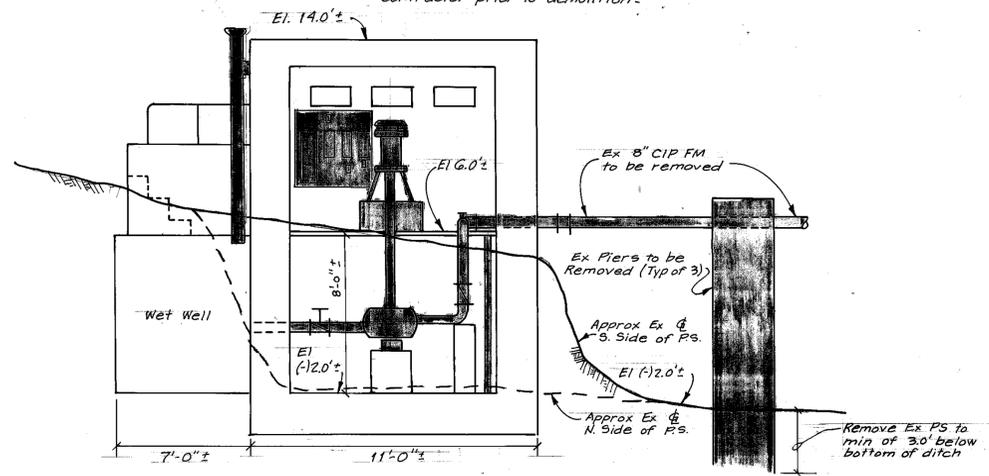
DEPARTMENT OF SANITARY SEWERS
CITY OF TAMPA, FLORIDA
RENEWAL & REPLACEMENT
SEWAGE DISPOSAL SYSTEM

RIDGEWOOD AVE PUMPING STATION
SITE PLANS

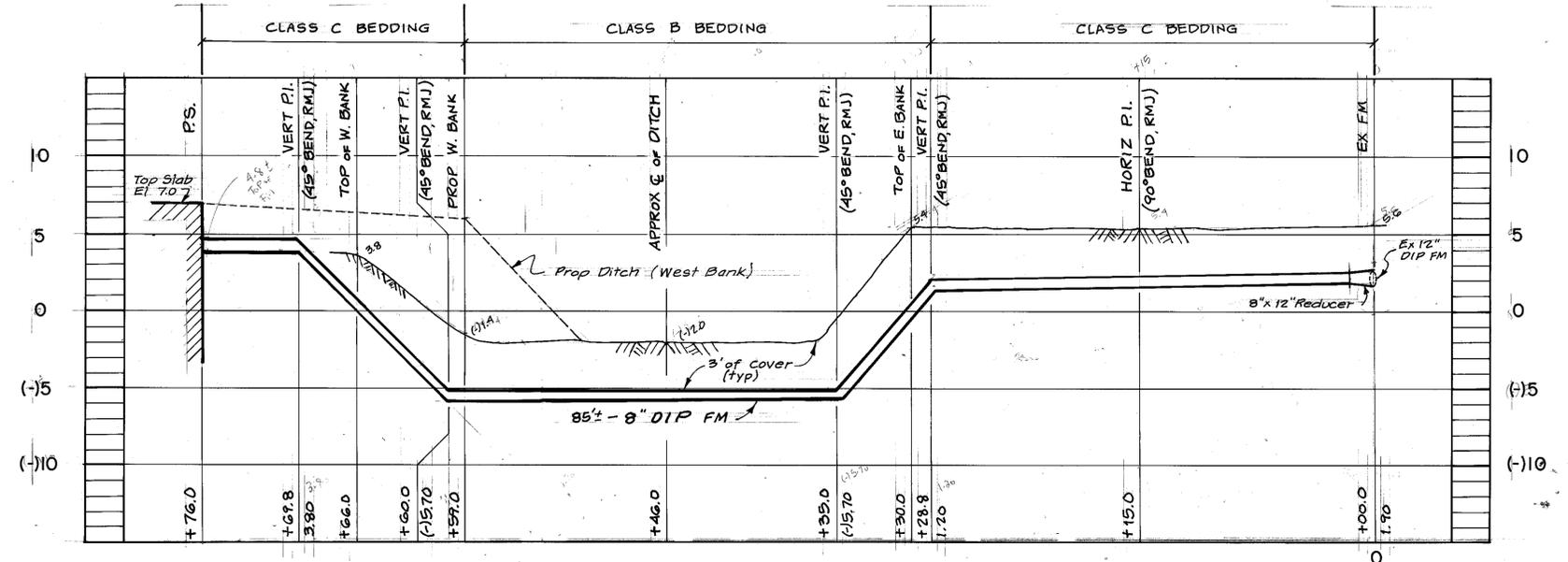
SHEET
2
OF 9

NOTE
 NO AS-BUILT ELEVATION INFORMATION
 AVAILABLE FOR WET WELL AND PS STRUCTURE.
 DEMOLISH STATION TO ELEVATION (-)3.00.

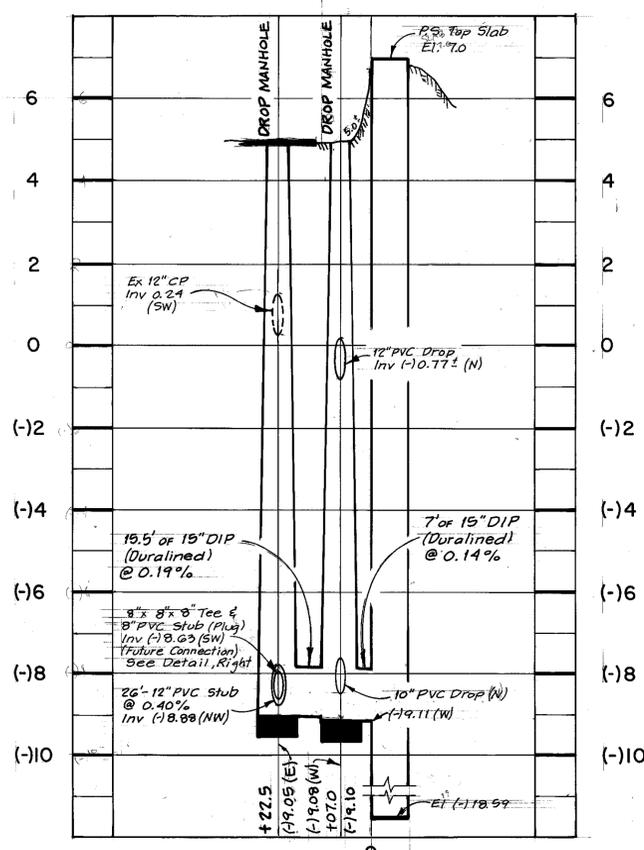
shaded areas indicate equipment to be removed and disposed of by the Contractor prior to demolition.



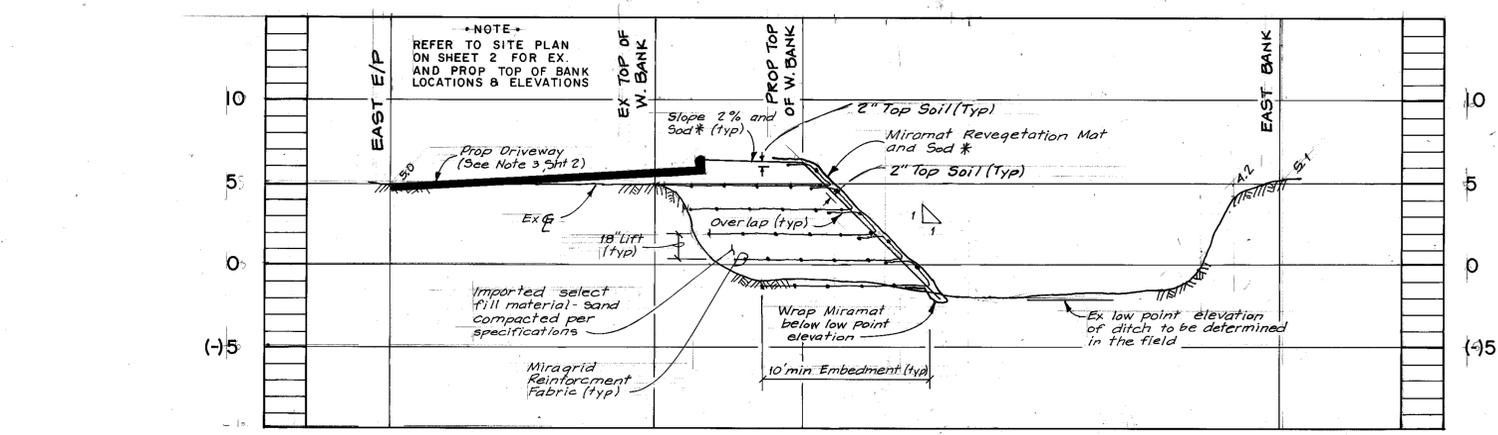
EXISTING PUMPING STATION & EQUIPMENT TO BE REMOVED
 NOT TO SCALE



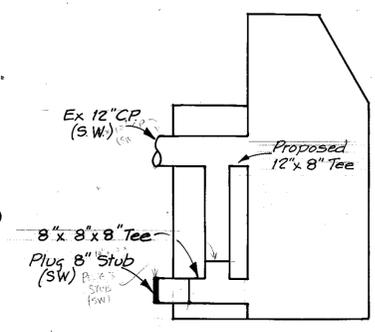
PROFILE 'B'
 1" = 5' (HORIZ)
 1" = 5' (VERT)



PROFILE 'A'
 1" = 20' (HORIZ)
 1" = 2' (VERT)



TYPICAL DITCH SECTION
 1" = 5' (HORIZ)
 1" = 5' (VERT)



PROPOSED DROP CONNECTION @ MH STA 0+22.5
 NOT TO SCALE

DESIGNED BY
 ANDREW T. CRONBERG, PE #32560
 CHIEF ENGINEER
 DEPARTMENT OF SANITARY SEWERS

DES: AH
 DRN: CQ
 CKD: DWJ
 DATE: 7-8-88

APPROVED BY
 JACK P. MORRIS, PE
 DIRECTOR
 DEPARTMENT OF SANITARY SEWERS

NO	DATE	REVISIONS
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3		
4		
5		

SCALE AS SHOWN
 AS SHOWN

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

RIDGEWOOD AVE PUMPING STATION
 PROFILES AND SECTIONS

SHEET
3
 OF 9

262-003.pdf

C 262-3