CONTRACT 22-C-00005

EXECUTIVE PARK GRAVITY SEWER REPLACEMENT

CITY OF TAMPA WASTEWATER DEPARTMENT 2545 GUY N. VERGER BOULEVARD TAMPA, FL 33605



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116-009	AS-BUILT DRAWING

	REVISIONS								
BY	DAT=	D=SCRIPTION	BY	DAT=	D=SCRIPTION				

MILLS and ASSOCIATES, INC. CONSULTING ENGINEERS & LAND SURVEYORS 3242 HENDERSON BOULEVARD * SUITE 300 TAMPA, FLORIDA 33609—3056

TELEPHONE: (813) 876-5869

ITY OF TAMPA WASTE WATER DEPARTMENT

DRWN BY:	DATE
DSGN BY:	DATE
CHKD BY:	DATE

EXECUTIVE PARK GRAVITY SEWER REPLACEMENT

100% CONSTRUCTION DRAWINGS - 01/13/22

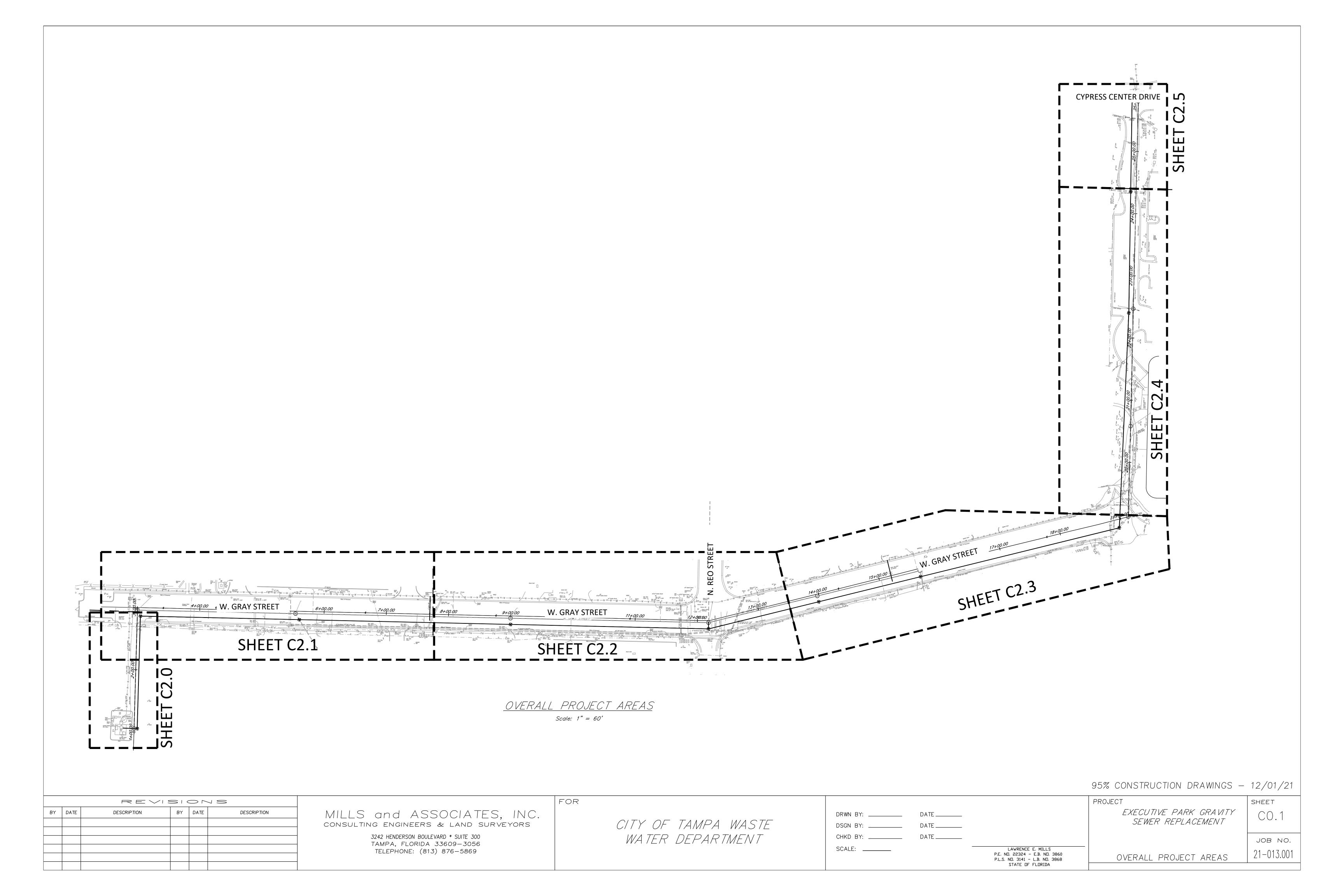
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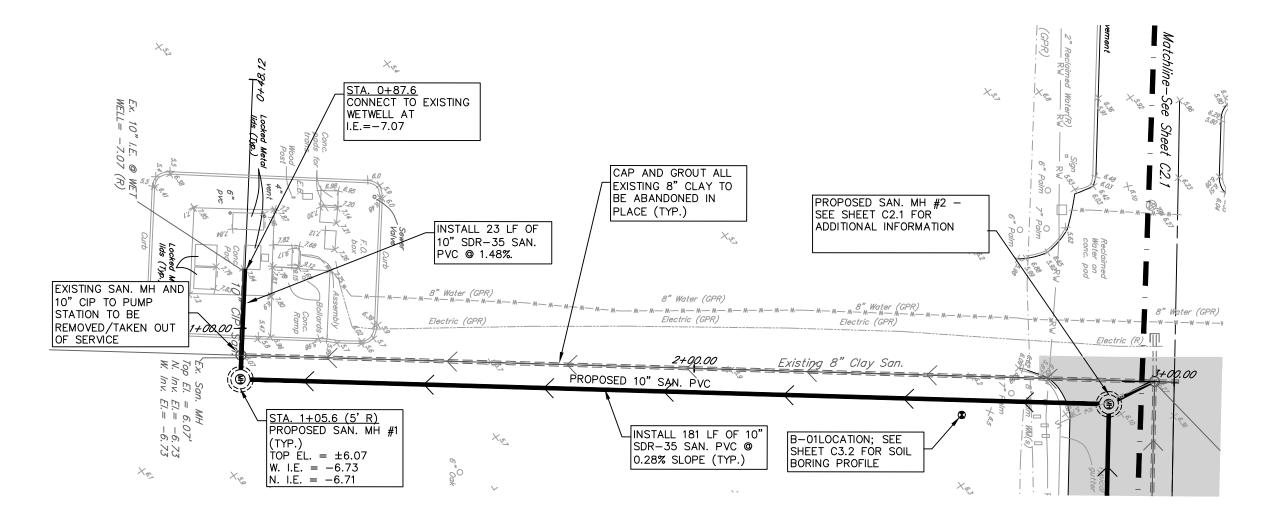
JOB NO.

21-013.001

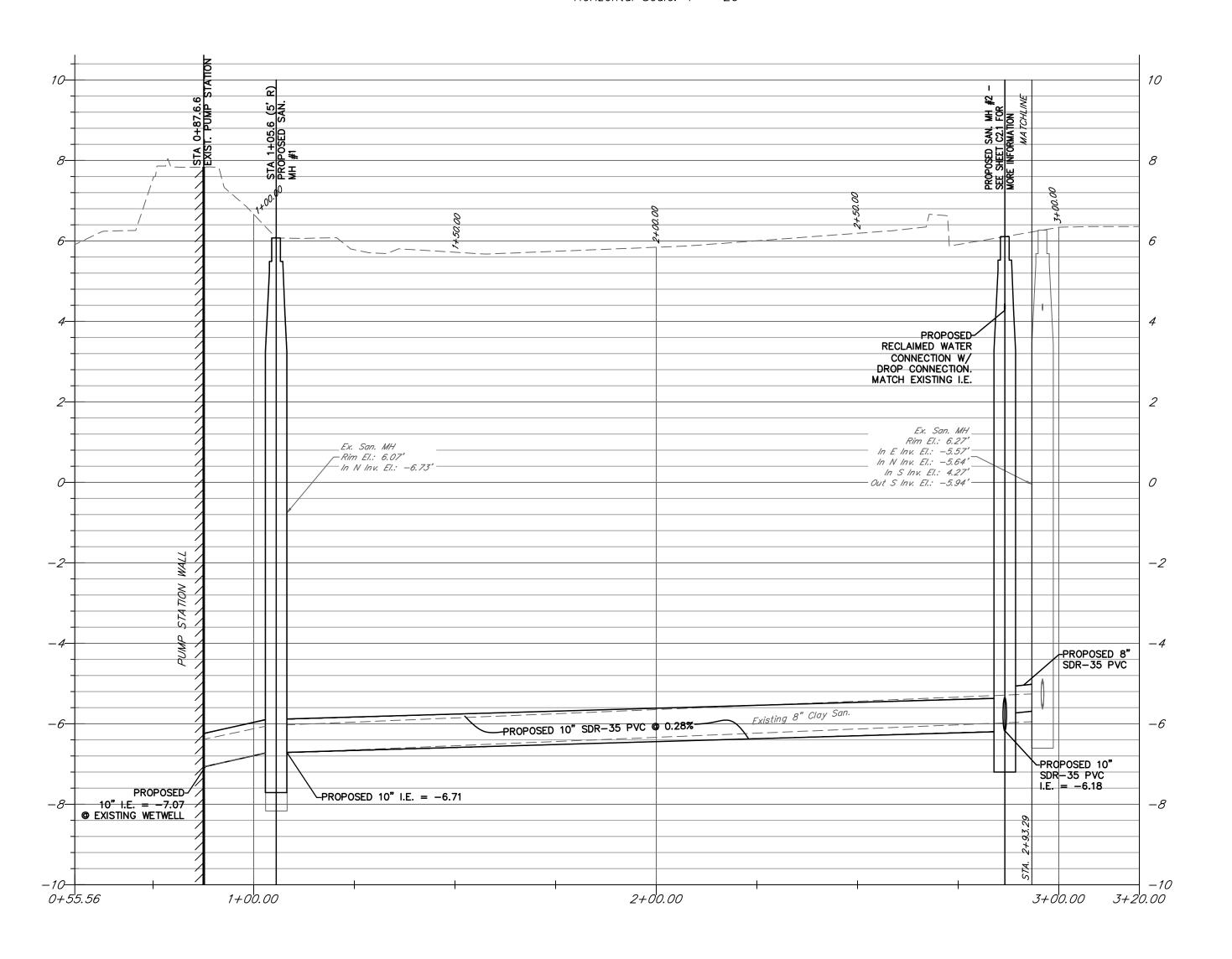
COVER SHEET

SCALE:





PLAN VIEW Horizontal Scale: 1" = 20'



PROFILE VIEW Horizontal Scale: 1" = 20' Vertical Scale: 1" = 2'



SCALE 1" = 20'

LEGEND (As Applicable)

BC	Back of Curb
BFP	Backflow Preventer
(C)	Calculated
CLF	Chain Link Fence
CMP	Corrugated Metal Pipe
CO	Clean Out
Conc.	Concrete
EOP	Edge of Pavement
FDC	Fire Department Connector
FF	Finished Floor Elevation
FZ	Flow Line
GI	Grate Inlet
GW	Guy Wire
H/C	Handicapped Parking Sign
HP	High Point
ID	Identification
IE	Invert Elevation
	Found Capped Iron Rod
FCM	Found Concrete Monument
FH	Fire Hydrant
FIR	Found Iron Rod
LB	Licensed Business
L.P.	
	Light Pole
(M)	Measured data
MEC	Match Existing Curb
MEP	Match Existing Pavement
MES	Mitered End Section
MH	Manhole
-/	Overall
OR	Official Records
OHW	Overhead Wires
(P)	Plat data
Ped. xing	Pedestrian Crossing
PK&D	Parker Kalon Nail
	& Disk (as noted)
(R)	Reported
PVC	Polyvinyl chloride
RCP	Reinforced Concrete Pipe
R/W	Right of Way
San.	Sanitary
SCO .	Sanitary CO
SF	Square Feet
SIR	Set 5/8" IR with
5//1	Cap: LB3868
C/W	Sidewalk
S/W TBM	
TC	Temporary Bench Mark Top of Curb
TE	
T.O.B.	Top Elevation Top of Bank
(Typ)	Typical
OHW	Overhead Wires
OVH	Overhang
UGE	Underground Electric
UP Van	Utility Pole
Ver.	Verizon
WM .	Water Meter
14/1/	
WV	Water Valve

1. SANITARY SERVICE LATERAL LOCATIONS OBTAINED FROM RECORD AS-BUILT DRAWINGS AND T.V. INSPECTION VIDEO. CONTRACTOR TO FIELD VERIFY LATERAL LOCATIONS PRIOR TO CONSTRUCTION. 2. EXISTING UTILITIES ARE SHOWN FROM THE BEST INFORMATION AVAILABLE. UNDERGROUND UTILITY INFORMATION SHOWN IS FROM GPR INFORMATION COLLECTED ON 07/28/21 AND ASBUILT/RECORD DRAWINGS SUPPLIED BY UTILITY PROVIDERS. PRIOR TO CONSTRUCTION, CONTRACTOR TO VERIFY

HORIZONTAL AND VERTICAL LOCATION OF

NOTE TO CONTRACTOR: CONTRACTOR TO CALL SUNSHINE STATE ONE-CALL OF FLORIDA, 1-800-432-4770

A MINUMUM OF 2 DAYS PRIOR TO EXCAVATION

100% CONSTRUCTION DRAWINGS - 01/13/22

ALL UTILITIES.

REVISIONS							
DATE	DESCRIPTION	BY	DATE	DESCRIPTION			
	DATE						

MILLS and ASSOCIATES, INC. CONSULTING ENGINEERS & LAND SURVEYORS

CITY OF TAMPA WASTE WATER DEPARTMENT

DSGN BY: _____ DATE____ CHKD BY: _____ DATE _____ SCALE: 1"= 20' PROJECT EXECUTIVE PARK GRAVITY SEWER REPLACEMENT

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

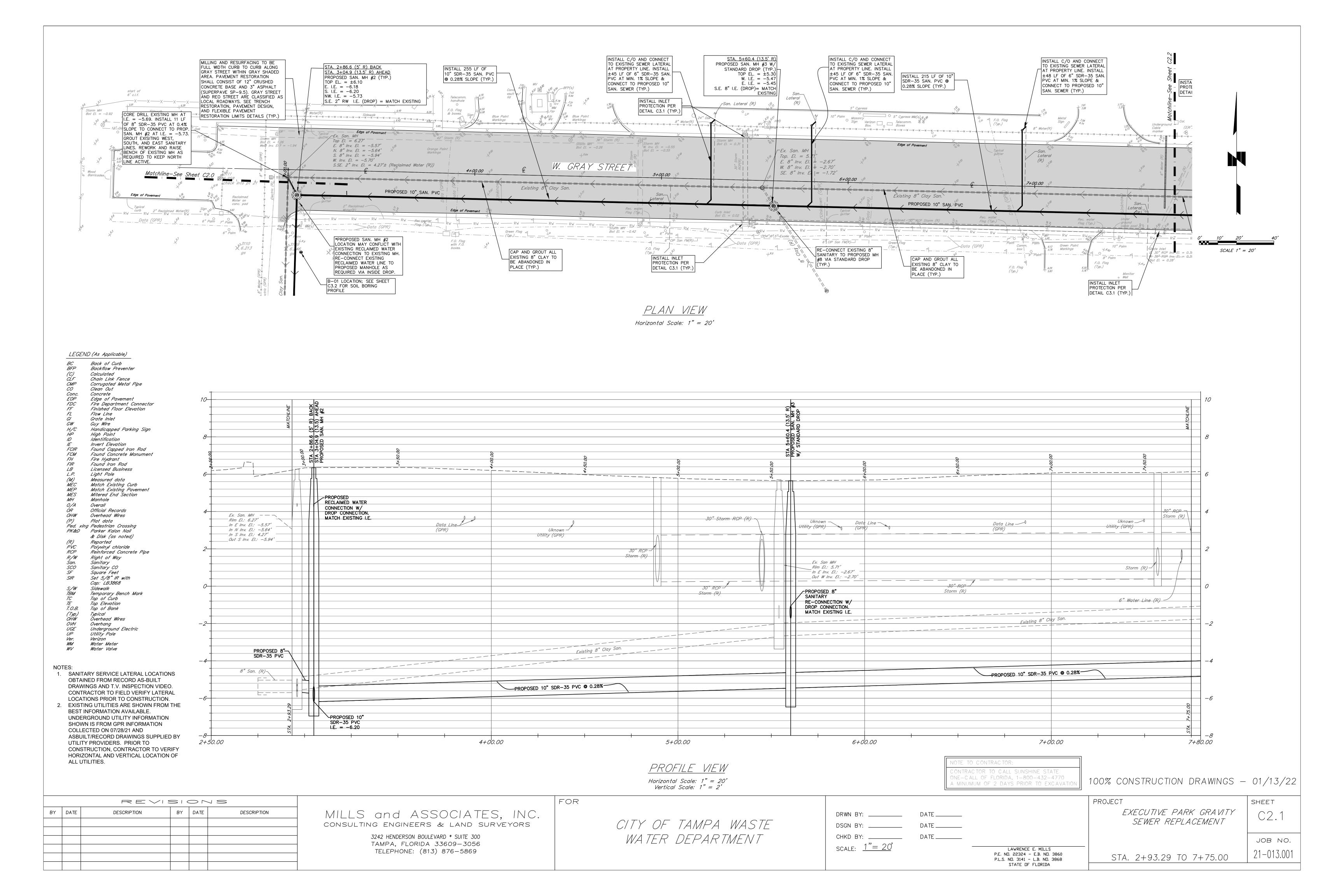
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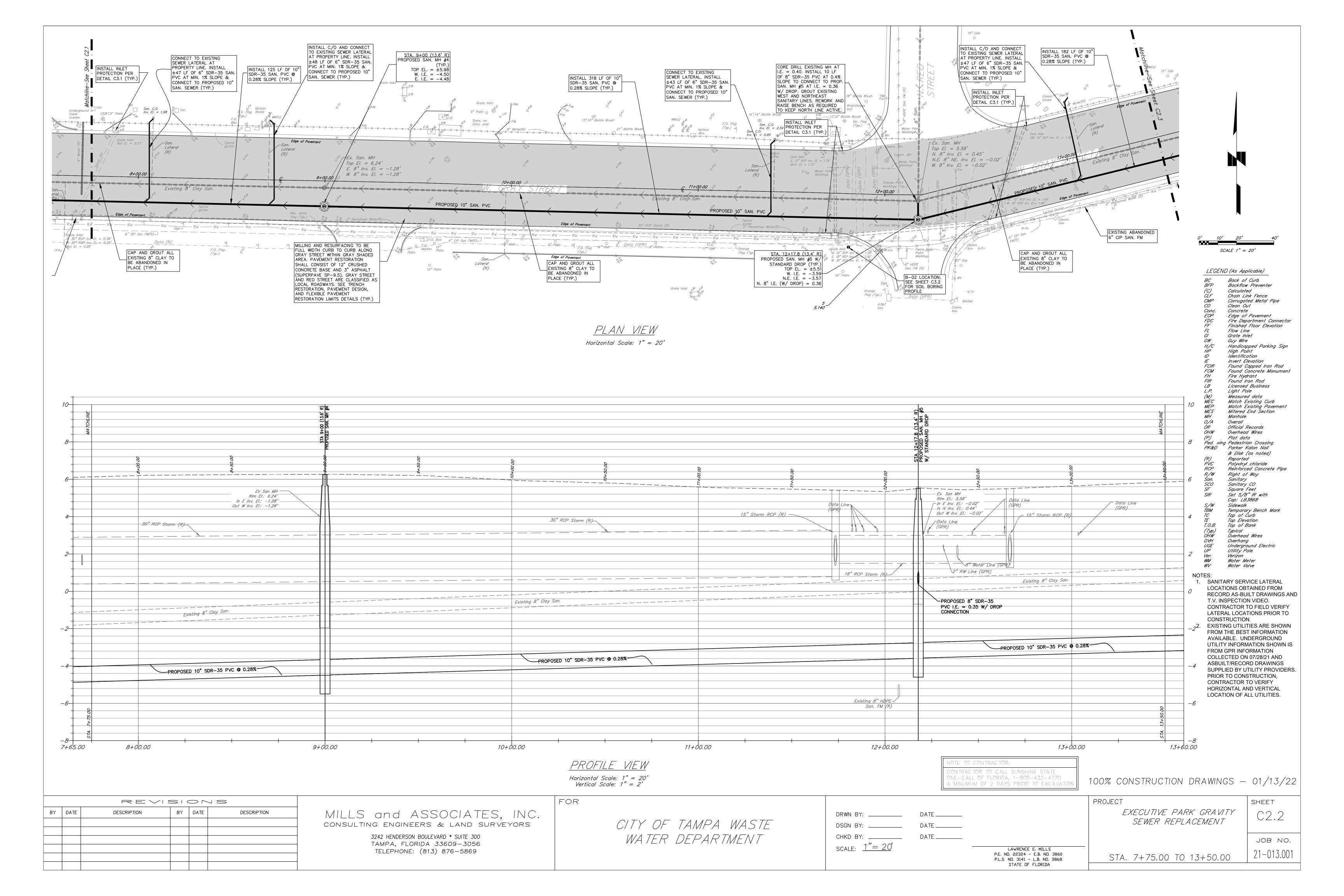
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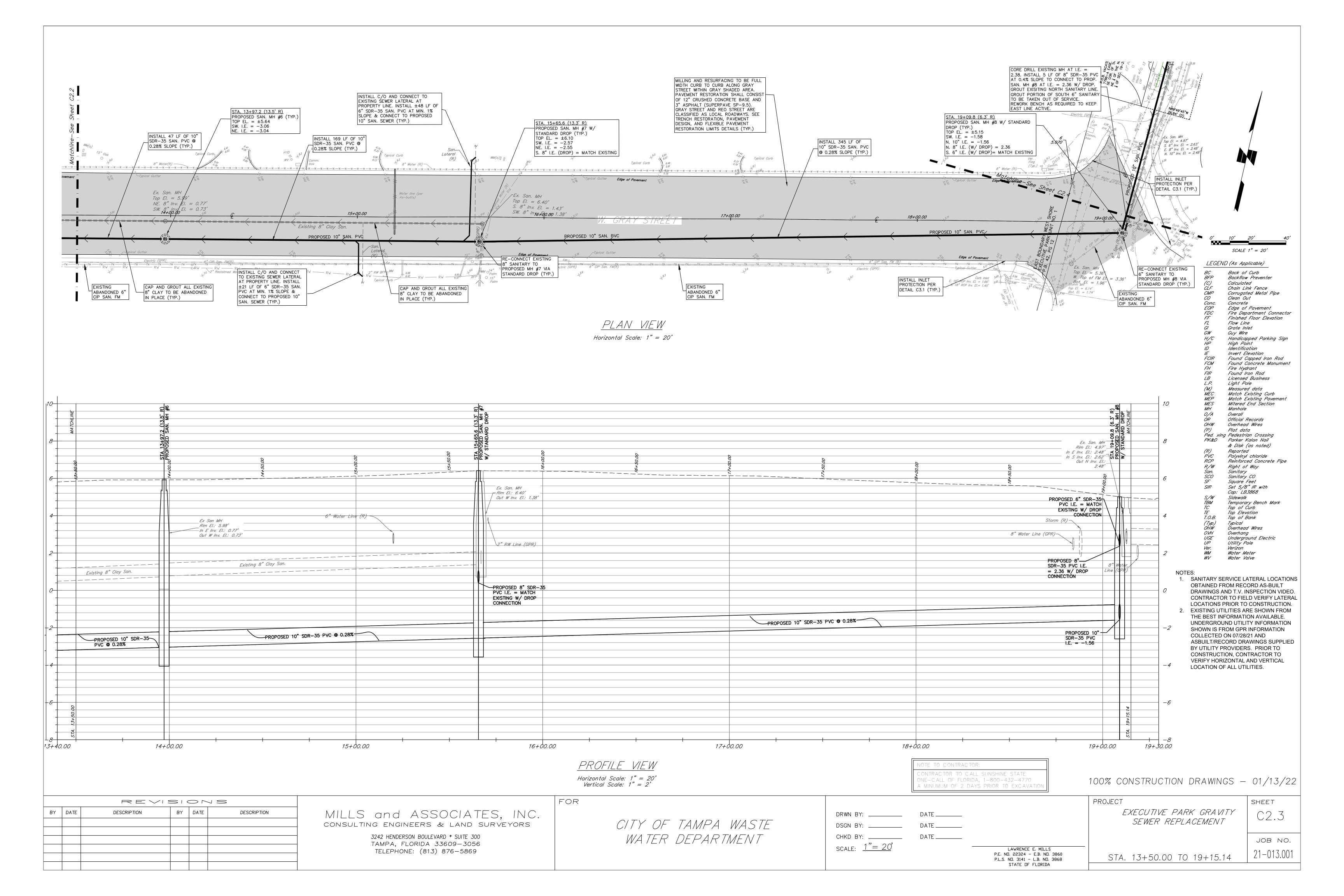
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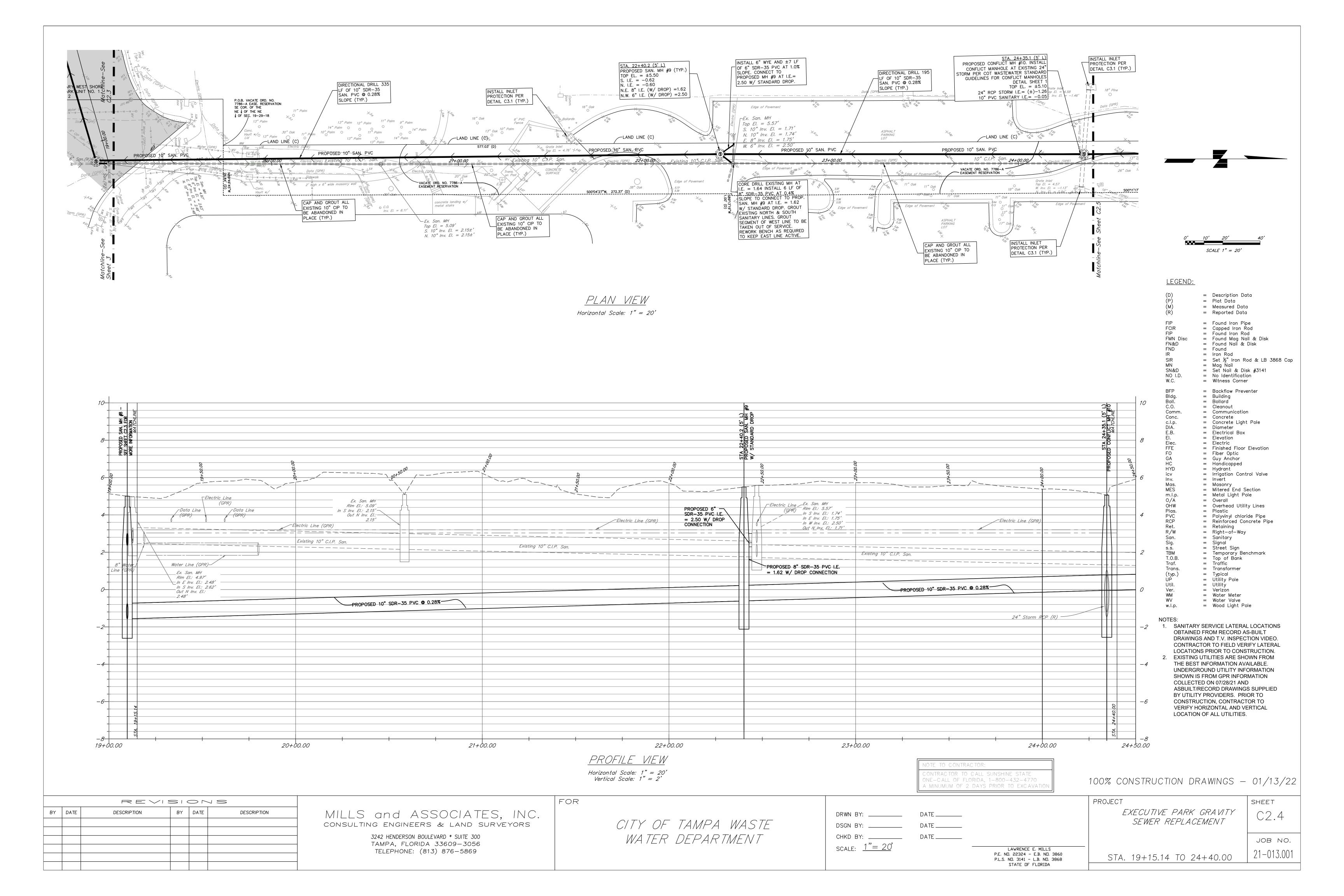
STA. 1+00.00 TO 2+93.29

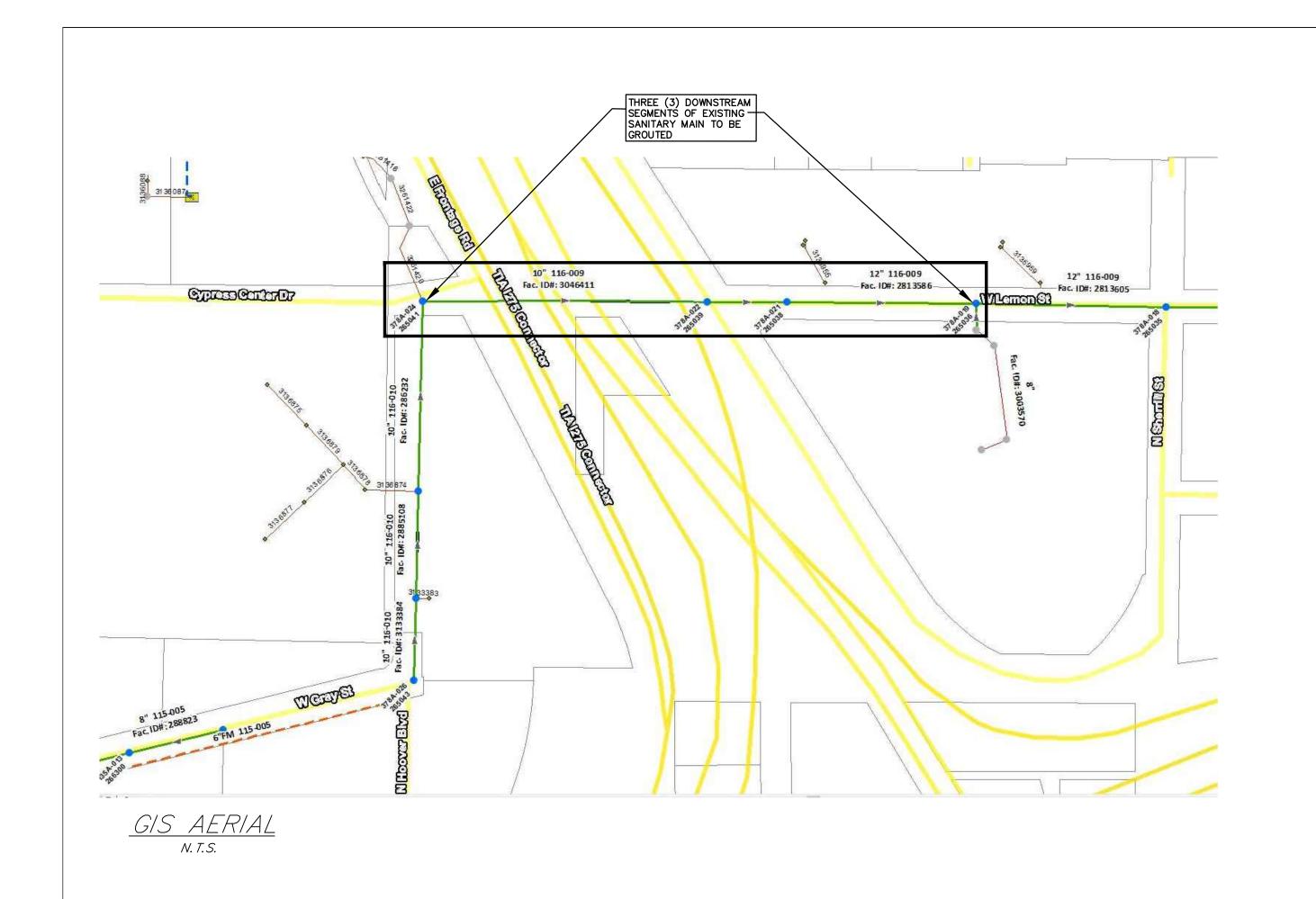
3242 HENDERSON BOULEVARD * SUITE 300 TAMPA, FLORIDA 33609-3056 TELEPHONE: (813) 876-5869

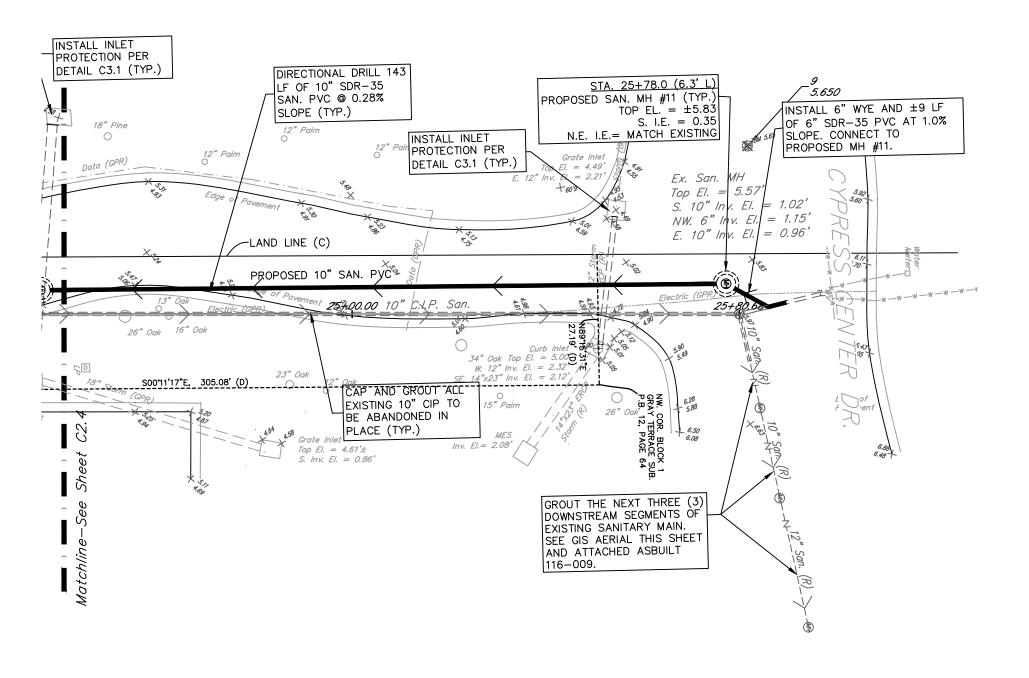




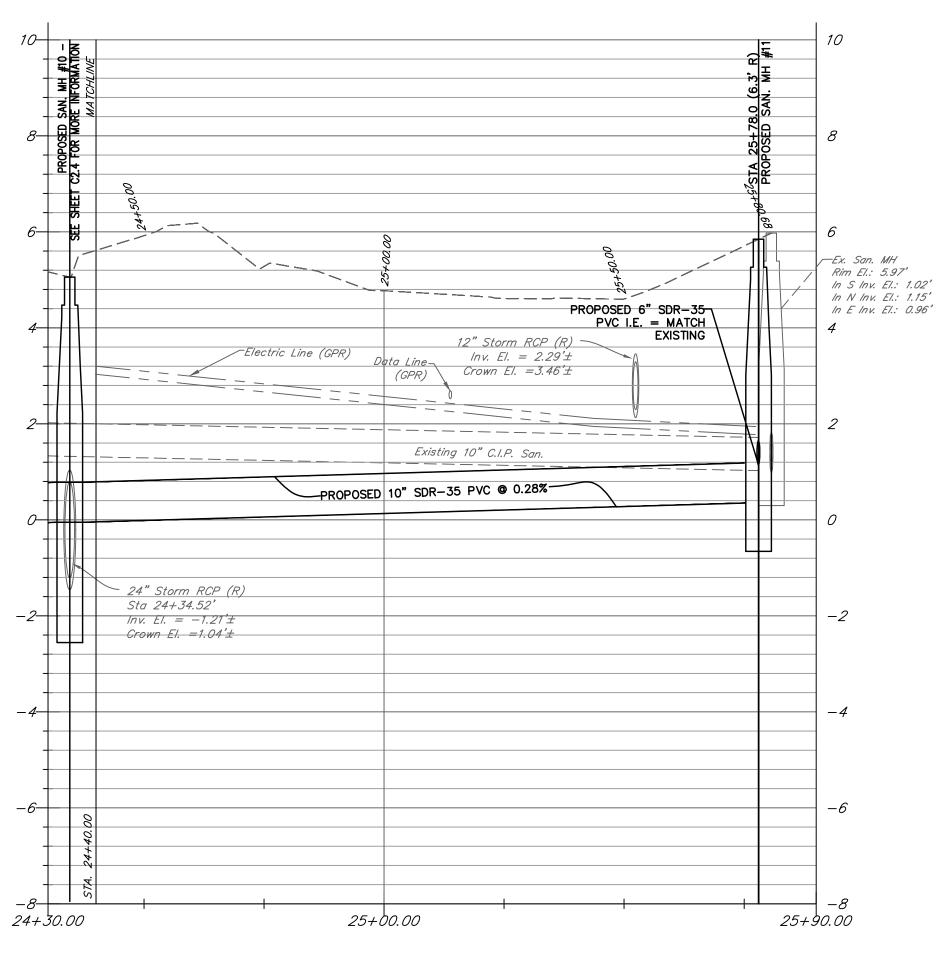






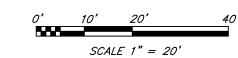


<u>PLAN VIEW</u> Horizontal Scale: 1" = 20'



PROFILE VIEW Horizontal Scale: 1" = 20' Vertical Scale: 1" = 2'





<u>LEGEND:</u>

= = = =	Description Data Plat Data Measured Data Reported Data
	Found Iron Pipe Capped Iron Rod Found Iron Rod Found Mag Nail & Disk Found Nail & Disk Found Iron Rod Set ½" Iron Rod & LB 381 Mag Nail Set Nail & Disk #3141 No Identification Witness Corner
	Backflow Preventer Building Bollard Cleanout Communication Concrete Concrete Light Pole Diameter Electrical Box Elevation Electric Finished Floor Elevation Fiber Optic Guy Anchor Handicapped Hydrant Irrigation Control Valve Invert Masonry Mitered End Section Metal Light Pole Overall Overhead Utility Lines Plastic Polyvinyl chloride Pipe Reinforced Concrete Pipe Retaining Right—of—Way Sanitary Signal Street Sign Temporary Benchmark Top of Bank Traffic Transformer Typical Utility Pole Utility Verizon
=	Water Meter

= Water Valve

= Wood Light Pole

w.l.p.

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> OTE TO CONTRACTOR: ONTRACTOR TO CALL SUNSHINE STATE ONE-CALL OF FLORIDA, 1-800-432-4770 A MINUMUM OF 2 DAYS PRIOR TO EXCAVATION

100% CONSTRUCTION DRAWINGS - 01/13/22

	REVISIONS								
BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION				

MILLS and ASSOCIATES, INC. CONSULTING ENGINEERS & LAND SURVEYORS

TAMPA, FLORIDA 33609-3056

TELEPHONE: (813) 876-5869

CITY OF TAMPA WASTE WATER DEPARTMENT

DSGN BY: _____ DATE ____ CHKD BY: _____ DATE____ SCALE: 1"= 20'

PROJECT EXECUTIVE PARK GRAVITY SEWER REPLACEMENT

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

JOB NO. 21-013.001

SHEET

STA. 24+40.00 TO 25+80.68

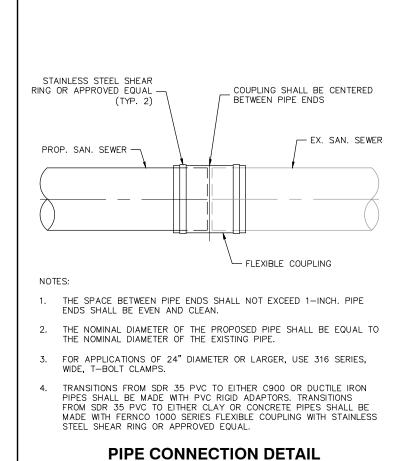
3242 HENDERSON BOULEVARD * SUITE 300

GENERAL NOTES:

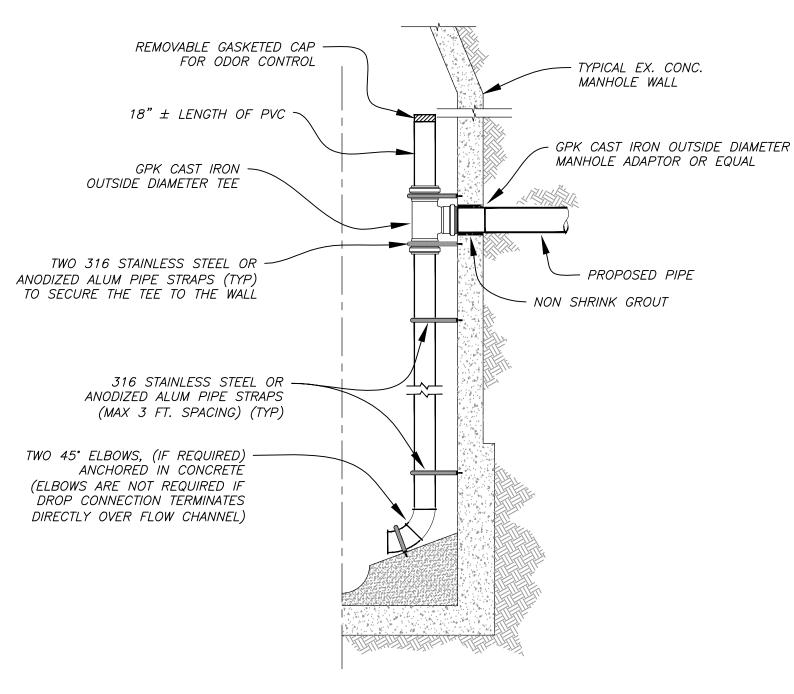
- 1. All work shall comply with the regulations, requirements and ordinances of the various governing agencies having jurisdiction over said work, including, and not limited to, Hillsborough County, F.D.E.P., F.D.H.R.S. , S.W.F.W.M.D., and F.D.O.T.
- 2. Location, dimension, elevation and identification of existing utilities, structures and other topographic features are approximate only, according to the best information available at the time of preparation of these plans. There may be additional existing details on—site and off—site, the presence of which is not known or detected at this time. Engineer/Surveyor shall not be held responsible for undetected underground utilities. Prior to construction, it is the contractor's responsibility to verify the location, dimension, elevation and identification of all utilities, structures and topographic features (i.e. buildings, sidewalks, canopy supports, fences, pavement, underground utilities, utility poles/quy wires, manholes, inlets, a/c units, trees, landscaping, etc.). If any of the existing or proposed conditions either: a) conflict with the proposed improvements, or b) are not shown or shown incorrectly on the plans, it is the contractor's responsibility to contact the
- Engineer prior to the commencing any work activities. 3. The construction testing/inspection shall be the contractor's responsibility to schedule and complete any and all tests as required with all site civil improvements constructed on and off site. It shall also be the contractor's responsibility to pre-test these improvements prior to giving the Engineerof—Record any governing agency field representative 48 hours advance notice of any formal tests.
- 4. Engineer/Surveyor shall not be held responsible for undetected underground utilities and/or soil conditions. Site preparation to be in accordance with a geotechnical engineers recommendations and as a minimum standard must conform with the following: a) Unsuitable material to be removed; b) Fill material to be clean with no organics, muck, clay, etc.; c) Fill to be placed 12" lifts or less and compacted to 98% modified proctor. All elevations refer to 1988 NAVD
- 6. The Contractor shall notify the appropriate public agency(ies) and utility companies prior to commencing work within their jurisdiction(s).
- 7. All pipe lengths are plus or minus and are measured from center of fittings and/or structures.
- 8. The Contractor shall maintain copies of all applicable permits on—site and shall be responsible to adhere to all permit conditions during construction.
- 9. Florida Statute 553.851 (1979) requires a minimum of 2 days and maximum of 5 days notice before excavation. Call SUNSHINE STATE ONE-CALL OF FLORIDA at 1-800-432-4770.
- 10. The Contractor shall use appropriate measures to prevent erosion and transport of sediment to surface drains. The Contractor shall use hay bales and/or silt barriers to mitigate adverse impacts to existing surface water quality.
- 11. The Contractor shall check plans for conflicts and discrepancies prior to construction. The Contractor shall notify the owner's Engineer of any conflict before performing any work in the affected area.
- 12. Reinforced concrete pipe (RCP) shall be a minimum of Class III pipe as designated in ASTM C-76.
- 13. Any relocation or modification of proposed storm sewer system shall not be made without the approval of the Engineer-of-
- 14. Drainage shall be maintained during construction.
- 15. The Contractor is responsible for repairing any damage to existing facilities, above or below ground, that may occur as a result of the work performed by the Contractor called for in this contract
- 16. All underground utilities must be in place and tested or inspected prior to base and surface construction.
- 17. All inspections and documents referred to shall be of latest revision.
- 18. The Contractor shall submitt for approval to the Owner's Engineer shop drawings on all precast and manufactured items. failure to obtain approval before installation may result in removal and replacement at Contractor's expense.
- 19. Mills & Associates, Inc. makes no representations or guaran tees pertaining to easements, rights of way, set back lines, reservations, agreements and other similar matters.
- 20. Continuous sewer service must be maintained by the contractor at all times. contractor shall provide by-pass pumping sized for 500 GPM. A by-pass pumping plan shall be submitted for approval. 21. The minimum clearance between laterals and water lines shall be 6"
- under all circumstances. if the 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.
- 22. All disturbed earthen areas shall be sodded with bahia sod. Proposed pipe shall be green ASTM D3034 P.V.C. pipe, SDR-35 installed with Class "C"
- 23. Contractor must maintain access to all streets and driveways for the duration of the project.
- 24. Connection between new PVC and existing pipes shall be made using flexible couplings with stainless steel shear rings. See pipe connection
- 25. The contractor shall protect all trees in the vicinity of the proposed construction in accordance with chapter 13 of the City of Tampa code. No trees shall be pruned without prior approval from the City of Tampa Parks & Recreation Department, Natural Resource Division, and shall be completed by a certified arborist. Root pruning may be required at certain locations and shall be completed in accordance with Chapter 13 Technical Manual Specifications.
- 26. Pavement restoration shall consist of 12- inch crushed concrete base, and 3- inch asphalt (Superpave SP-9.5). Gray Street and Reo Street are classified as local roadways. See trench restoration, pavement design and flexible pavement restoration limits details.
- 27. Existing utilities are shown from the best information available. underground utility information shown is from GPR information collected on 07/28/21 and as built/record drawings supplied by utility providers. Prior to directional drilling, contractor shall excavate and verify existing horizontal and vertical location of all utilities via vacuum or conventional excavation.

- A. During the construction and/or maintenance of this project, all safety regulations are to be enforced. The Contractor or his representative shall be responsible for the control and safety of the traveling public and the safety of his personnel.
- B. Labor safety regulations shall conform to the provisions set forth by OSHA in the Federal Register of the
- Department of Transportation. C. The minimum standards as set forth in the current edition of "The State of Florida, Manual on Traffic Control and Safe Practices for Street and Highway Construction, Maintenance and Utility Operations" shall be followed in the design application, installation, maintenance and removal of all traffic control devices, warning devices and barriers necessary to protect the public and workmen from hazards within the project
- D. All traffic control markings and devices shall conform to the provisions set forth in the manual on uniform traffic control devices prepared by the U.S. Department of Transportation Federal Highway Administration.

it shall be the sole responsibility of the Contractor to comply and enforce all applicable safety regulations. The above information has been provided for the Contractor's information only and does not imply the Owner or Engineer will inspect and/or enforce safety regulations.

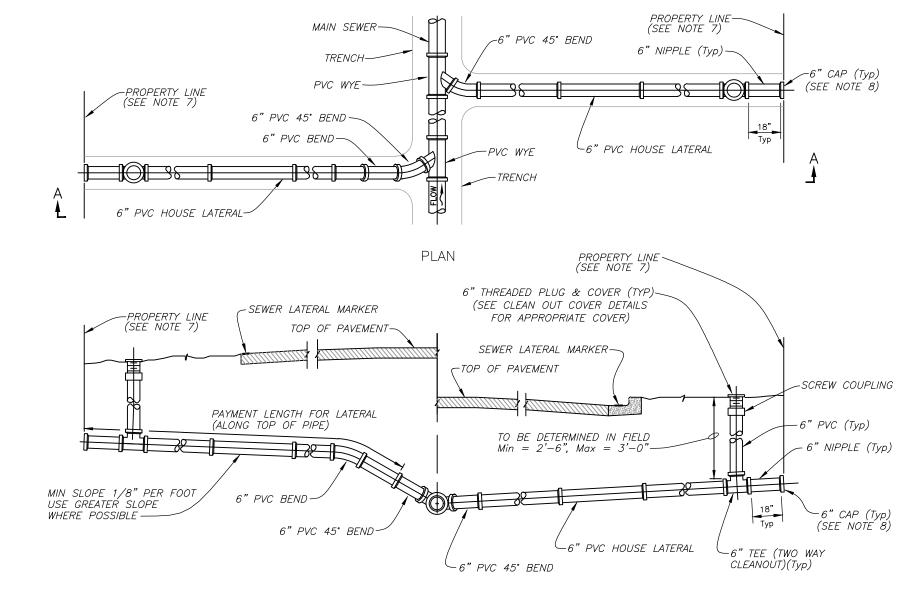


SCALE: NTS



HALF SECTION INSIDE DROP CONNECTION DETAILS Not to Scale

STANDARD DETAILS MANHOLE INSIDE DROP CONNECTIONS



SECTION A-A

TYPE A HOUSE LATERAL DETAIL Not to Scale

STANDARD DETAILS NEW LATERAL CONNECTIONS

NOTES:

- 1. The locations of house laterals by symbols on plans are approximate only and the actual location and slopes will be determined in the field by the contractor with the approval of the
- 2. The minimum diameter of all house laterals shall be 6 inches.
 - connection to the gravity main and the property line. 4. House laterals which pass under drainage ditches with less than 18" of cover or which have less than 30" of cover under pavement shall be Pressure Class 350 with 40 mils (MDFT) of

Protecto 401 interior coating per specifications.

3. The vertical alignment of the service lateral shall be designed so

that no more than two (2) vertical bends are required between the

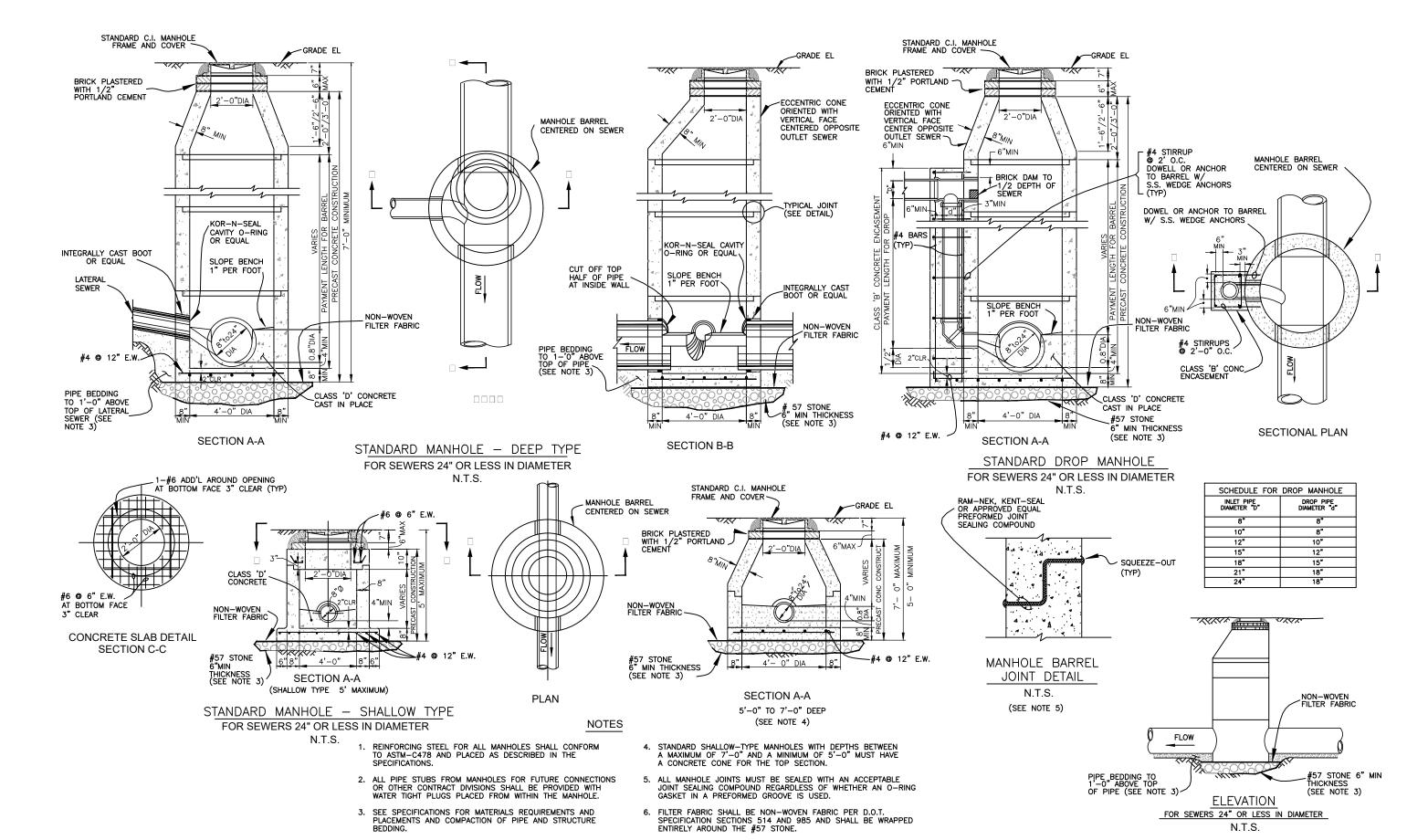
- 5. A minimum vertical clearance of 12-inches shall be provided when crossing above a water main. However, a vertical clearance less than 12-inches but greater than 6-inches will be allowed if the lateral is installed using one the following criteria:
- The lateral is constructed of ductile iron pipe with a minimum pressure class of 350 with 40 mils (MDFT) of Protecto 401
- interior coating.
- The lateral is encased in at least 4-inches of concrete. • The lateral is installed in a casing pipe with an impact strength equal to the impact strength of pressure class 350 ductile iron.

A minimum of 6-inches of vertical clearance shall be provided when crossing below water mains with a diameter 6-inches or less. A minimum of 12-inches of clearance shall be provided when crossing below a water main with a diameter greater than 6-inches up to a diameter of 18-inches. A minimum of 18-inches of vertical clearance will be required when crossing under a water main with diameters greater than 18-inches.

At all water main crossings, joints of the lateral pipe at the crossing shall be arranged so that no joint is within 6-ft of a joint along the water main. If the joint spacing can not be achieved, then the gravity sewer at the crossing shall be constructed of C-900 PVC.

A minimum vertical clearance of 6-inches shall be provided when crossing above all utilities other than a water main. A minimum of 6-inches of vertical clearance shall be provided when crossing below a utility with a diameter 6-inches or less. A minimum of 12-inches of clearance shall be provided when crossing below a utility with a diameter greater than 6-inches up to a diameter of 18—inches. A minimum of 18—inches of vertical clearance will be required when crossing under utilities with diameters greater than

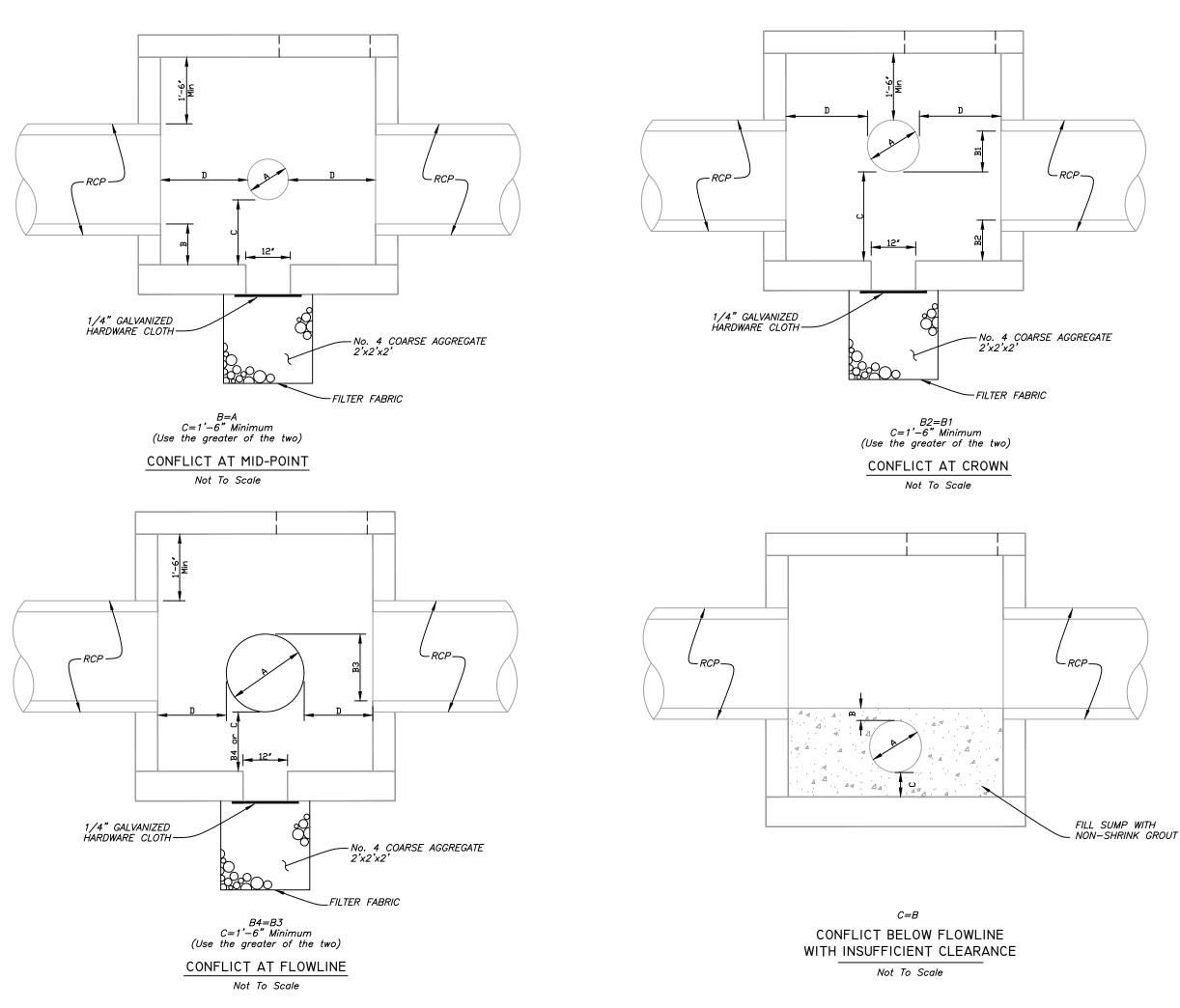
- 6. Transitions from SDR 35 PVC to either C900 or ductile iron pipes shall be made with PVC rigid adaptors. Transitions from SDR 35 PVC to either existing clay or concrete pipes shall be made with a Fernco 1000 series flexible coupling with stainless steel shear ring
- 7. In sub-divisions where the Developer has provided a recorded utility easement (typically 10') beyond the property line, the clean out shall be installed within the easement away from the sidewalk.
- 8. At the direction of the City's inspector, the contractor shall temporarily stake the cap of all laterals at the property line with a 2"x4" treated wood stake.



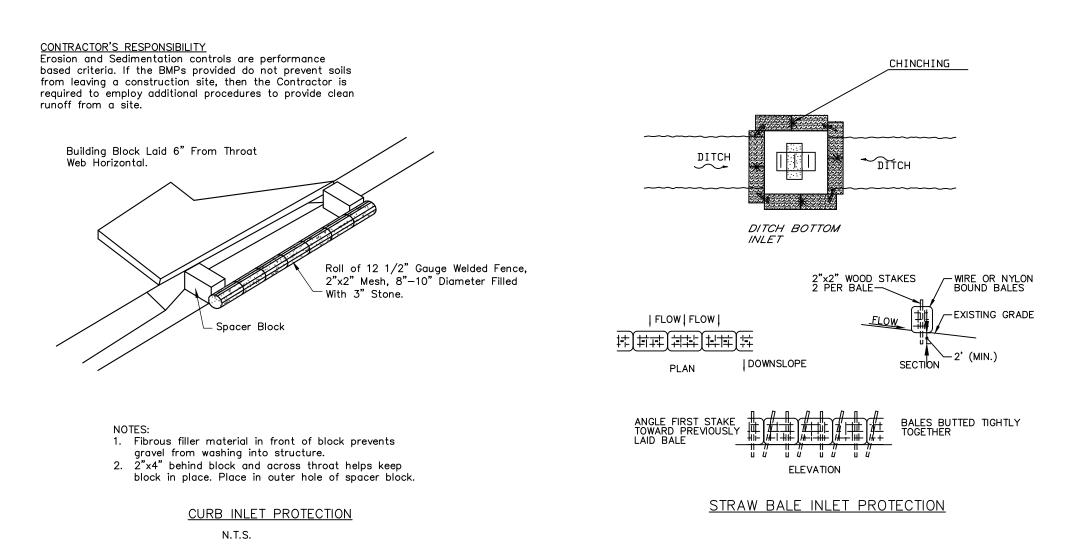
STANDARD DETAILS STANDARD MANHOLE 8" TO 24"

100% CONSTRUCTION DRAWINGS - 01/13/22

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	REVISIONS		FOR		PROJECT	SHEET
В	Y DATE DESCRIPTION BY DATE DESCRIPTION	MILLS and ASSOCIATES, INC. consulting engineers & land surveyors	CITY OF TAMPA WASTE	DRWN BY: DATE DSGN BY: DATE	EXECUTIVE PARK GRAVITY SEWER REPLACEMENT	C3.0
		3242 HENDERSON BOULEVARD * SUITE 300 TAMPA, FLORIDA 33609-3056 TELEPHONE: (813) 876-5869	WATER DEPARTMENT	P.E. NO. 2232: P.L.S. NO. 314	ICE E. MILLS 4 - E.B. NO. 3860 1 - L.B. NO. 3868 OF FLORIDA DETAILS & NOTES	JOB NO. 21-013.001



GUIDELINES FOR CONFLICT MANHOLES

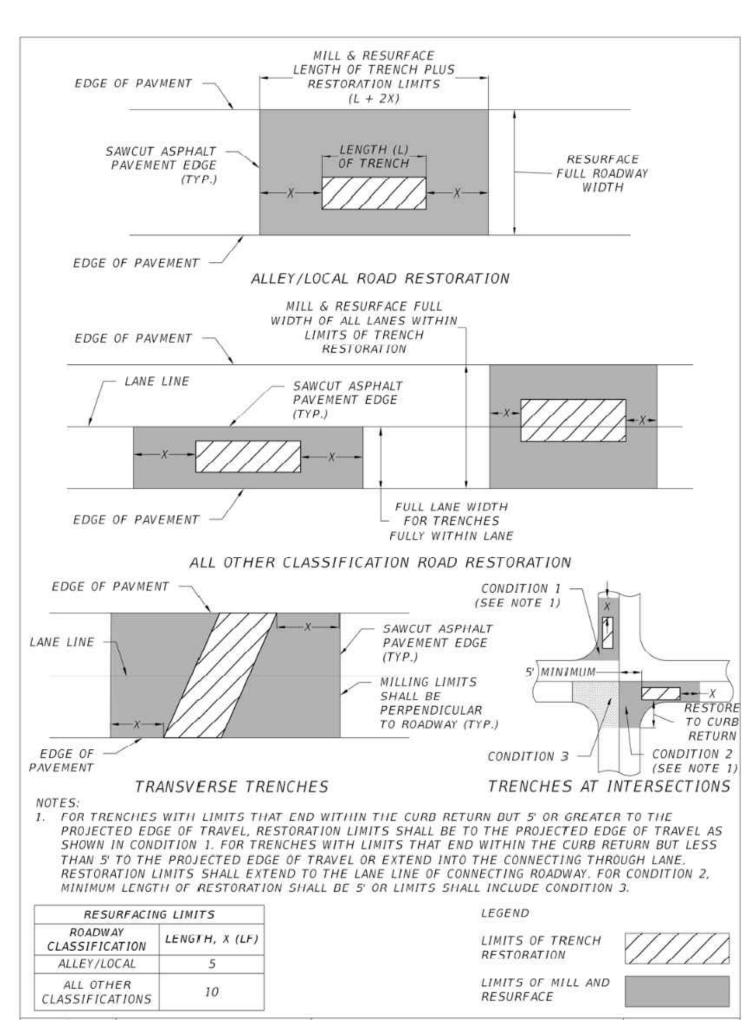


Erosion Control Note:
The contractor to set silt screen, hay bales, and all other protection measures prior to the start of construction. All existing stormwater grate inlets within the project area are to be protected. After new inlets are installed, the contractor shall place erosion control on those also. As an alternate, place filter fabric under the grates. The contractor to inspect all erosion control measures on a daily basis and re-erect as required.

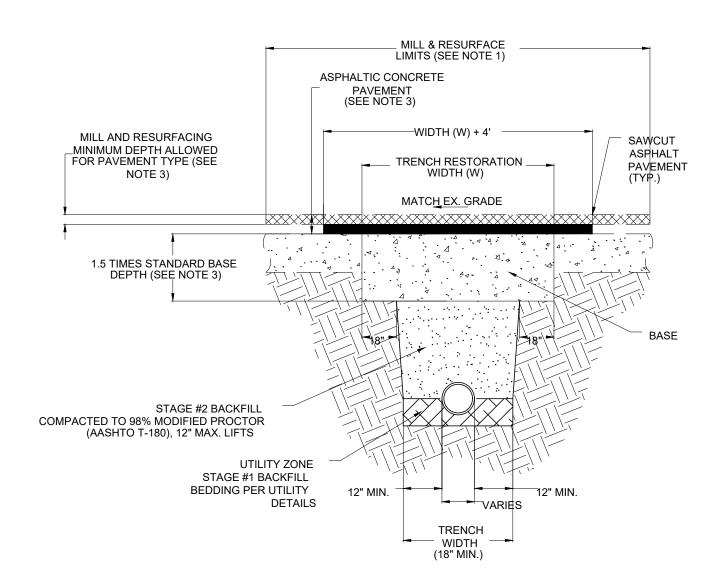
NOTES

- Conflict manhole shop drawing shall be submitted to the Engineer for approval prior to fabrication or beginning of any work on the conflict manhole.
- 2. The structural design shall be consistent with FDOT Index 200 and as approved by the Engineer.
- For conflict structures with sanitary sewer(s.s.) pipes the following shall apply:
- If the s.s. pipe is below the flowline of the storm pipe, replace the s.s. pipe with AWWA C-900 DR-18 Green and embed it in the sump with non-shrink grout. Connect the C-900 to the existing pipe with Fernco 5000 series shielded couplings w/ SS band adapters.
- If the s.s. pipe is above the flowline of the storm pipe, replace the s.s. pipe with AWWA C-900~DR-18~Green or ASTM 3034 SDR-35 or SDR-26 pipe and encase it in the smallest diameter steel casing pipe possible that will accomodate Cascade casing spacers. The steel casing shall be in compliance with Section W-67, "Steel Pipe And Fittings". Connect the new PVC pipe to the existing pipe with Fernco 5000 series shielded couplings w/ SS band adapters.
- 4. Conflicting water mains shall be sleeved if a joint in the pipeline falls within the conflict structure.
- 5. Filter fabric shall meet FDOT Standard Specification 441–2.3.
- A = Outside diameter of the conflicting utility line or sleeve.
- D = 2'-0" or 1/2(A) whichever is greater.
- 6. Exterior Steel Coating Shall Receive:
 1) shop coat one coat, 4—6 mils (dry) tnemec n140—1211 epoxy primer.
 2) field coat 1st coat, 5—7 mils (dry) tnemec series 446 perma—shield mcu

3) field coat — 2nd coat, 5—7 mils (dry) tnemec series 446 perma—shield mcu



FLEXIBLE PAVEMENT LIMITS



NOTES: 1. ALL WORK, MATERIALS, AND TESTING PER CITY OF TAMPA PAVEMENT AND RIGHT OF WAY

RESTORATION REQUIREMENTS.

2. SEE CITY OF TAMPA FLEXIBLE PAVEMENT RESTORATION LIMITS DETAIL (PVT-2) FOR REQUIRED LIMITS OF MILLING & RESURFACING. IF EXISTING ASPHALTIC CONCRETE PAVEMENT LAYER DEPTH EXCEEDS MINIMUM STANDARD, MATCH EXISTING ASPHALT THICKNESS.

3. MATERIAL, TYPE AND THICKNESS OF STANDARD ASPHALTIC CONCRETE PAVEMENT AND BASE

PER CITY OF TAMPA PAVEMENT DESIGN STANDARDS. SEE PAVEMENT DESIGN DETAIL, PVT-1A

- FOR INTERIM STANDARDS.

 4. ANY ROADWAY RESTORATION OUTSIDE THE LIMITS OF TRENCH RESTORATION SHALL MEET THE MINIMUM MATERIAL AND THICKNESS REQUIREMENTS WITHIN THE CITY OF TAMPA PAVEMENT DESIGN STANDARDS. SEE PAVEMENT DESIGN DETAIL, PVT-1A FOR INTERIM STANDARDS.
- 5. CONTRACTOR SHALL REVIEW ROADWAY LONGITUDINAL ROADWAY GRADES PRIOR TO PAVEMENT RESTORATION WORK TO ENSURE THAT ROADWAY MEETS MINIMUM SLOPE PER THE FLORIDA MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE (FLORIDA GREENBOOK).
- 6. FOR BRICK PAVER SECTIONS, SEE CITY OF TAMPA MISCELLANEOUS RESTORATION DETAILS, PVT-3. FOR RIGID PAVEMENT, SEE FLORIDA DEPT. OF TRANSPORTATION (FDOT) STANDARD

TRENCH RESTORATION

PAVEMENT DESIGN MINIMUM STANDARDS

ROADWAY CLASSIFICATION BASE MATERIAL RIGID PAVEMENT ASPHALTIC CONCRETE

ALLEY 6" 6" 1"

LOCAL 8" 6" 2"

NEIGHBORHOOD COLLECTOR 8" 6" 3"

* MINIMUM PAVEMENT SECTIONS CAN BE MODIFIED WITH AN APPROVED PAVEMENT DESIGN SUBMITTED TO THE CITY OF TAMPA MOBILITY DEPT., TRANSPORTATION ENGINEERING DIVISION.

dia

12"*

COLLECTOR

ARTERIAL

PAVEMENT DESIGN

100% CONSTRUCTION DRAWINGS - 01/13/22

REVISIONS							
BY	BY DATE DESCRIPTION BY DATE DESCRIPTION						
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MILLS and ASSOCIATES, INC. consulting engineers & land surveyors

3242 HENDERSON BOULEVARD * SUITE 300 TAMPA, FLORIDA 33609-3056 TELEPHONE: (813) 876-5869 CITY OF TAMPA WASTE WATER DEPARTMENT

DRWN BY:	DATE
DSGN BY:	DATE
CHKD BY:	DATE
SCALE: 1"= 20	

PROJECT
EXECUTIVE PARK (SFWFR RFPLACE
JL WLN NLFLACL

ECUTIVE PARK GRAVITY
SEWER REPLACEMENT

JOB NO.
21-013.00

SHEET

LAWRENCE E. MILLS

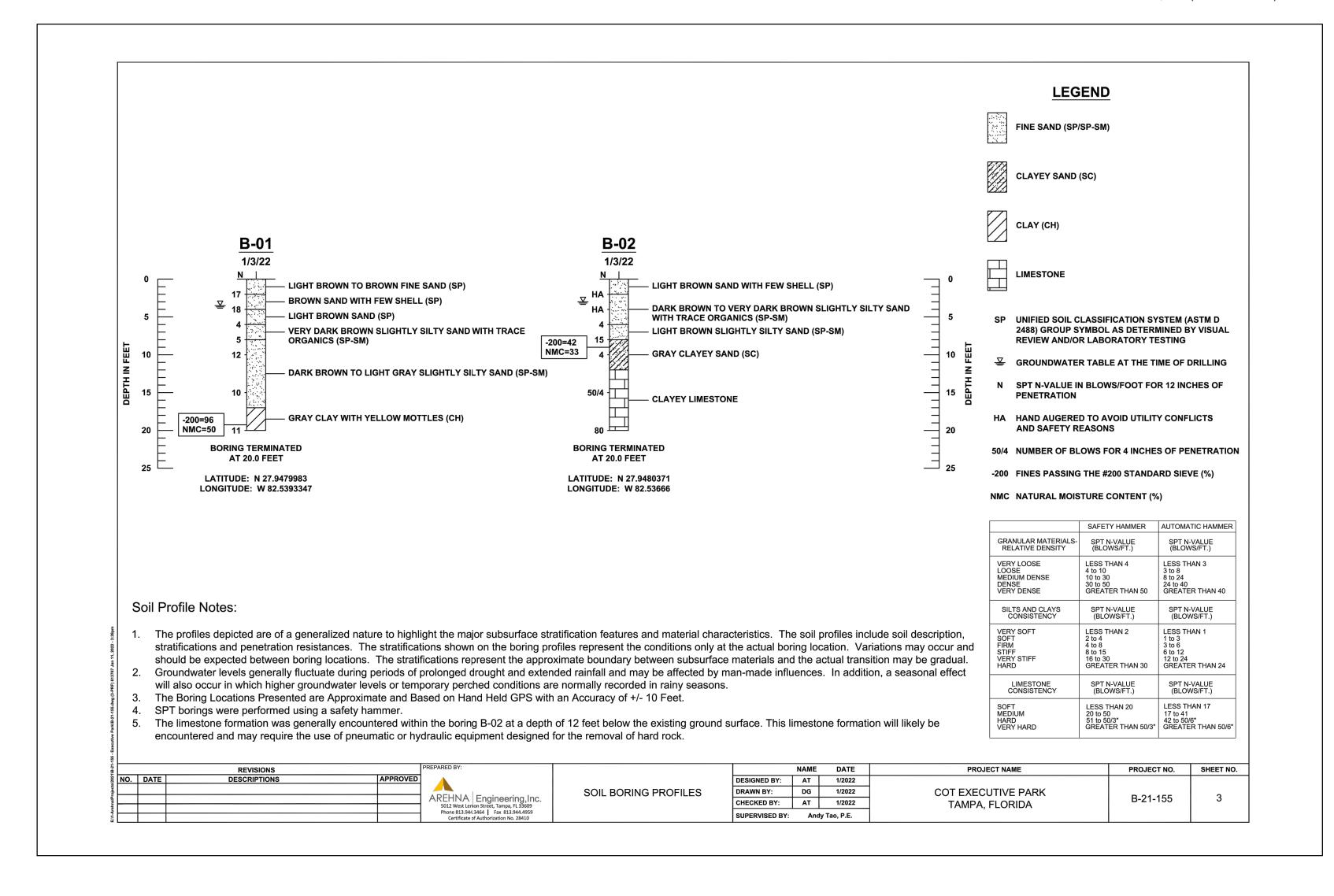
P.E. NO. 22324 - E.B. NO. 3860

P.L.S. NO. 3141 - L.B. NO. 3868

STATE OF FLORIDA

DETAILS & NOTES

*GEOTECHNICAL INFORMATION THIS SHEET OBTAINED FROM GEOTECHNICAL REPORT FOR WEST GRAY STREET SEWER LINE RELOCATION PREPARED BY AREHNA ENGINEERING, INC. (DATED 01/11/22)



100% CONSTRUCTION DRAWINGS - 01/13/22

	REVISIONS		FOR		PROJECT	SHEET
B`	Y DAT: DESCRIPTION BY DAT: DESCRIPTION	MILLS and ASSOCIATES, INC. consulting engineers & land surveyors	ITY OF TAMPA WASTE	DRWN BY: DSGN BY: DATE	EXECUTIVE PARK GRAVITY SEWER REPLACEMENT	C3.2
		3242 H=ND=RSON BOUL=VARD * SUIT= 300 TAMPA, FLORIDA 33609-3056 TELEPHONE: (813) 876-5869	WATER DEPARTMENT	CHKD BY: DATE SCALE: 1"= 20'	-WR_NC I D.	JOB NO. 21-013.001

