PRIME SQUARE DORAL

WATER AND SEWER EXTENSION PLANS

City of Doral, Miami-Dade County, Florida.

NOTE: ALL IMPROVEMENTS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.

LEGEND:

EXISTING

CATCH BASIN	SANITARY SEWER MAIN	CONC. CURB
STORM MANHOLE	WATER MAIN	CURB & GUTTER
SANITARY MANHOLE	STORM SEWER LINE	EXISTING IMPROVEMENTS
FIRE HYDRANT	BURIED COMMUNICATION	TRAFFIC SIGN
UTILITY VALVES	GAS MAIN	CONC. WHEEL STOP
WATER METER	UNDERGROUND ELECTRIC (FPL)	GROUND ELEVATION
TEL./ELEC. BOX	UNDERGROUND ELECTRIC	CHAIN LINK FENCE
WOOD POWER POLE	OVERHEAD WIRES	CONCRETE WALKWAYS
POWER POLE w/LUMINAIRE	CONC. POWER POLE	EXISTING TREES

PROPOSED

CATCH BASIN	PROPOSED GRADE	LIGHT POLE (BY OTHERS)
STORM MANHOLE	FLOW DIRECTION ARROW	TYPE "D" CONC. CURB
SANITARY MANHOLE	STATION OFFSET, LT.=LEFT, RT.=RIGHT	SANITARY SEWER MAIN
RET./SED. TANK	CONCRETE DRIVEWAYS	WATER MAIN
OIL INTERCEPTOR TANK	ASPHALT PAVEMENT	STORM SEWER LINE
WATER VALVE	LANDSCAPE AREAS (SEE LANDSCAPE PLANS)	BURIED COMMUNICATION
FIRE HYDRANT	PROPOSED TREES FOR REFERENCE ONLY. REFER TO ARCHITECTURAL LANDSCAPE PLANS	GAS MAIN
F.D.C.		UNDERGROUND ELECTRIC
FIRE HYDRANT LOCATION		

ABBREVIATIONS

℄	= CENTERLINE	℄	= PROPERTY LINE
R/W	= RIGHT OF WAY LINE	(T)	= THERMOPLASTIC
PROP.	= PROPOSED	PERF.	= PERFORATED
ELEV.	= ELEVATION	C.AL.	= CORRUGATED ALUMINUM
TYP.	= TYPICAL	W.L.	= WATER LINE
P.C.O.	= FLUSH CLEAN OUT	CONC.	= CONCRETE
EXIST.	= EXISTING	M.H.	= MANHOLE
INV.	= INVERT	SL.	= SLOPE
COND	= CONDENSATE	PRB	= POLLUTANT RETARDANT BAFFLE
P.I.V.	= POST INDICATOR VALVE	F.D.C.	= FIRE DEPARTMENT CONNECTION
N.A.P.	= NOT A PART OF THESE PLANS	C.B.	= CATCH BASIN

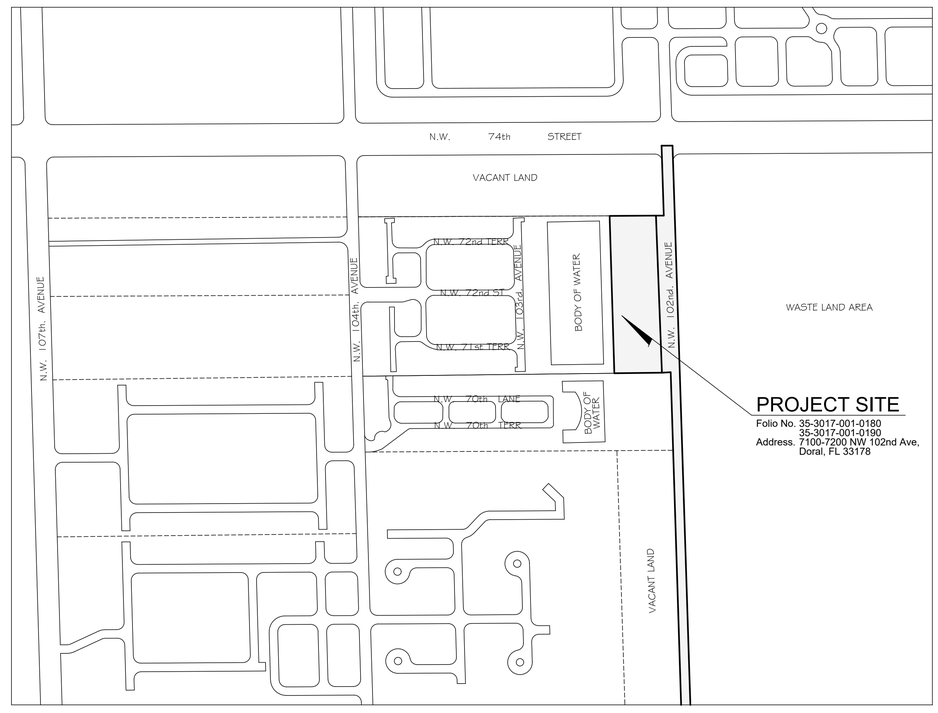
ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD)

ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).

DISCLOSURE RELATED TO CRITICAL HABITAT FOR ENDANGERED SPECIES

PLEASE BE ADVISED THAT THE FEDERAL GOVERNMENT HAS DESIGNATED ALL OR A PART OF THE SUBJECT PROPERTY AS CRITICAL HABITAT FOR ONE OR MORE ENDANGERED SPECIES.

YOU ARE NOT AUTHORIZED TO COMMENCE ANY WORK OR ACTIVITIES PURSUANT TO THIS PERMIT UNTIL YOU OBTAIN ANY AND ALL APPROVALS OR PERMITS, IF NECESSARY, FROM THE FEDERAL GOVERNMENT PURSUANT TO THE ENDANGERED SPECIES ACT AND FROM THE STATE OF FLORIDA PURSUANT TO FLORIDA LAW ON ENDANGERED SPECIES. PLEASE BE ADVISED THAT, EVEN AFTER WORK COMMENCES, IF MIAMI-DADE COUNTY IS ADVISED BY THE FEDERAL GOVERNMENT, THE STATE OF FLORIDA, OR A COURT THAT AN ACTIVITY ON THE SUBJECT PROPERTY IS IN VIOLATION OF THE ENDANGERED SPECIES ACT, IN VIOLATION OF FLORIDA LAW ON ENDANGERED SPECIES, OR IN VIOLATION OF A PERMIT OR APPROVAL GRANTED BY THE FEDERAL GOVERNMENT PURSUANT TO THE ENDANGERED SPECIES ACT, SUCH VIOLATION MAY RESULT IN AN IMMEDIATE STOP WORK ORDER. YOU ARE STRONGLY ADVISED TO CONSULT WITH THE UNITED STATES FISH AND WILDLIFE SERVICE AND ANY OTHER
NECESSARY FEDERAL OR STATE AGENCIES BEFORE CONDUCTING ANY WORK OR ACTIVITIES ON THE PROPERTY. THE VERO BEACH OFFICE OF THE UNITED STATES FISH AND WILDLIFE SERVICE MAY BE REACHED AT (772) 562-3909. PLEASE BE AWARE THAT THE FEDERAL GOVERNMENT MAY REQUIRE CERTAIN ACTIONS OR PROTECTIONS ON THE PROPERTY, AND THIS MAY RESULT IN THE NEED TO MODIFY THE PLANS FOR THE PROPERTY. THEREFORE, IT IS RECOMMENDED THAT YOU CONSULT WITH THE UNITED STATES FISH AND WILDLIFE SERVICE AT AN EARLY STAGE M THE PROCESS.
IN THE EVENT THAT THE UNITED STATES FISH AND WILDLIFE SERVICE ADVISES THAT YOUR PLANS FOR THE SUBJECT PROPERTY MAY RESULT IN A "TAKE" OF ENDANGERED OR THREATENED SPECIES, YOU ARE STRONGLY RECOMMENDED TO INFORM MIAMI-DADE COUNTY IN WRITING AT THE EARLIEST STAGE POSSIBLE.



LOCATION SKETCH
SECT. 17, TWP. 53s., RNG. 40e.
SCALE: 1"=300'

LEGAL DESCRIPTION:

THAT PORTION OF TRACTS 18 AND 19, OF "FLORIDA FRUIT LANDS COMPANY'S SUBDIVISION NO.1", IN SECTION 17, TOWNSHIP 53 SOUTH, RANGE 40 EAST, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 17, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, LYING WITHIN THE WEST 215 FEET OF THE EAST 250 FEET IF THE NORTHWEST 1/4 OF SECTION 17.

CONTAINING 141,940 SQUARE FEET OR 3.25 ACRES, MORE OR LESS, BY CALCULATIONS

NOTE:
To safeguard the public health, safety and welfare, the design standards, procedures, and construction materials were selected based on the results of an environmental due diligence review of public records performed pursuant to state and local regulations with respect to soil and groundwater contamination. No portion of the proposed water main or related connections will be installed through or in any area known to be contaminated, including contaminated soil or contaminated groundwater, or buried solid waste; nevertheless, adequate precautions shall be taken during construction. If contaminated groundwater or contaminated soil is encountered during the installation of the WM, the work within these areas shall cease, and the RER-DERM Pollution Control Division shall be notified. Additionally, if contamination is encountered adequate measures shall be implemented, included but not limited to:
1. *All joints shall be equipped with Viton ® "O" gaskets.*
2. *Line the trench with impermeable membrane.*
3. *Only clean uncontaminated soil shall be used for backfilling; any contaminated soils shall be properly disposed of.*

SHEET INDEX

SHEET No.	TITLE
CWS-01	COVER SHEET
CWS-02	NOTES AND SPECIFICATIONS
CWS-03 AND CWS-04	WATER MAIN EXTENSION PLAN
CWS-05 AND CWS-06	WATER MAIN PROFILE
CWS-07	SANITARY SEWER MAIN EXTENSION PLAN
CWS-08	SANITARY SEWER PROFILE

S.S.O.C.O.F. DESIGN TICKET
NO. 311406695 - DATE: 11/06/24

Sunshine811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

M-DWASD
AGREEMENT ID#32880

Rodrigo Bermudez
Digitally signed by Rodrigo Bermudez
Date: 2025.09.24 15:33:44 -04'00'

This item has been digitally signed and sealed by Rodrigo Bermudez, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RODRIGO BERMUDEZ
LICENSE
No. 98720
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS DRAWING IS THE PROPERTY OF FORTIN, LEAVY, SKILES, INC. AND IS AN INSTRUMENT OF SERVICE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

No.	Date	Revision Description
A	07/29/2025	CUT & FILL APPLICATION SET
B	07/29/2025	REVISED PER COMMENTS FROM CITY OF DORAL
C	09/23/2025	REVISED PER COMMENTS FROM CITY OF DORAL

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

COVER SHEET
WATER AND SEWER SET

PRIME SQUARE DORAL
DORAL, FL 33178

Job. No. 247005	Dwg. No. 8024-005	Date 11/22/2024
Cad. No. 240595CP	Scale 1" = 300'	Sheet CWS-01 of 8
Ref. Dwg. S.B.O.	Drawn By. JDI	

1. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS.
2. COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4'-0" MIN.
3. ALL MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 OR 5.3 VALVE BOXES FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO. 2 VALVE BOXES.
4. ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUT OFF VALVE AND CHECK VALVE AT THE POINT OF ENTRY.
5. ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS.
6. ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT, PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.
7. FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY MIAMI-DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS.
8. CONTRACTOR MUST CALL MDWASD INSPECTION DIVISION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2 FULL BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION. CONTACT ONE CALL CENTER 48 HRS PRIOR TO EXCAVATION.
9. CONTRACT INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THE DEPARTMENT. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.
10. WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE DEPARTMENT:

a. EASEMENTS, IF REQUIRED
b. CONTRACTOR'S WAIVER AND RELEASE OF LIEN
c. ABSOLUTE BILL OF SALE
d. i. CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT)
   ii DEVELOPER'S CONTRACT BOND (I.E., CONTRACT AGREEMENT).
e. "RECORD DRAWING" PRINTS (24"x 36") SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER FACILITIES AS LOCATED BY A LICENSED SURVEYOR & MAPPER, ALONG WITH PRINTS OF "RECORD DRAWINGS" WHICH HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR & MAPPER. (No. OF PRINTS: 3-FOR WATER, 4-FOR GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submittal of final CAD Files required.
f. H.R.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS
g. BILL OF SALE SKETCH (8½"x 11") FOR WATER AND SEWER, SEPARATELY

11. ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY. THE CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRIOR TO TAP.
12. AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MDWASD FOR ALL NEW SUBDIVISIONS PRIOR TO APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST.
13. UNLESS OTHERWISE SPECIFIED, ALL TAPS 20 INCHES AND SMALLER FOR CONNECTIONS TO EXISTING MAINS WILL BE DONE BY DEPARTMENT FORCES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO TAP EXISTING MAINS IN THE SIZE RANGE SPECIFIED ABOVE. THE TAPPING SLEEVE AND TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE INSPECTOR.

ITEM	CROSS REF.	SPEC. REF.

ISSUE DATE	APPROVED BY
03/01/2010	V.F.C.
07/20/2016	D.V.

MIAMI-DADE COUNTY — Delivering Excellence Every Day — WATER & SEWER DEPARTMENT

STANDARD DETAIL
STANDARD REQUIREMENTS WATER AND SEWER CONSTRUCTION

GS 0.5 — SHEET 1 OF 2

1. AT THE COMPLETION OF ANY WATER AND SEWER JOB EITHER DONATION OR CONTRACT, THE CONTRACTOR SHALL SUBMIT:
   a. RECORD DRAWING PRINTS WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (QTY. OF PRINTS AS REQUIRED BY THE DEPARTMENT).
2. "RECORD DRAWING" FORMAT:
   a. 24"x 36" PRINTS
   b. PDF FILE
   c. CADD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLANE COORDINATES NAD 83 FLORIDA EAST ZONE
   d. THE WORDS "RECORD DRAWING" IN LARGE LETTERS
   e. TITLE BLOCK WITH DEPARTMENT DS, DW OR ER NUMBER AND PERTINENT INFORMATION
   f. PREFERRED SCALE TO BE 1"= 40' HORIZONTALLY AND 1"= 4' VERTICALLY*
   g. STREET NOMENCLATURE
   h. SEPARATE RECORD DRAWINGS FOR WATER AND SEWER
   i. SEPARATE WATER AND SEWER PROFILE
   j. STATIONING STARTING WITH 0+00 AT PERMANENT REFERENCE POINT (I.E. ℄, §, ETC.) OR AS SHOWN ON DESIGN PERMIT PLANS, AND TO RUN CONTINUOUSLY TO END OF MAIN
   k. EASEMENTS, IF ANY, TIED TO PERMANENT REFERENCE POINT
   l. IDENTIFY ALL CONTROL LINES (I.E. BLDG. LINE, PROPERTY LINE, R/W, ETC.)
   m. ALL "PROPOSED" INFORMATION TO BE REMOVED FROM PRINTS, LEAVING ONLY RECORD DRAWING INFORMATION REFLECTED IN DRAWINGS
3. WATER "RECORD DRAWINGS" MUST INCLUDE:
   a. PLANS SHOWING PIPE SIZE, MATERIAL AND OFFSET OF MAIN, DEFLECTIONS (IF ANY), STATION OF SERVICES, HYDRANTS, VALVES, FITTINGS, IF ANY, ALL IN STATE PLANE COORDINATES. UTILITY CROSSINGS SHALL BE CLEARLY IDENTIFIED AND LOCATED.
   b. PROFILE SHOWING TOP OF GROUND AND TOP OF PIPE ELEVATIONS AT EVERY 100' STATION AND AT ANY CHANGE IN GRADE (WITH CORRESPONDING STATION), PIPE SIZE AND PIPE MATERIALS REFERENCED TO PLAN.
4. SEWER "RECORD DRAWINGS" MUST INCLUDE:
   a. PLAN SHOWING MANHOLE NUMBER, PIPE SIZE AND PIPE MATERIAL OF PIPE, DEFLECTION, SLOPE OF GRAVITY SEWER, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND CLEANOUTS.
   b. THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED ON ALL RECORD DRAWING SUBMITTALS
   c. PROFILE SHOWING MANHOLE NUMBER (AS PER PLAN), RIM AND INVERT ELEVATIONS (IF MORE THAN ONE INVERT, LABEL NORTH, SOUTH, ETC.), AND STATION STARTING AT 0+00 AT DOWNSTREAM MANHOLE.
5. FORCE MAIN "RECORD DRAWING" SAME AS WATER MAIN.
6. EACH RECORD DRAWING SHALL SHOW THE FLORIDA STATE PLANE COORDINATES (CURRENT READJUSTMENT) OF ALL THE MANHOLES AND VALVES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS PROPERLY IDENTIFIED AND LOCATED WITHIN THE PROJECT.

* OTHER SCALE MAY BE PERMITTED, BUT MUST BE APPROVED BY THE DEPARTMENT PRIOR TO PREPARATION OF DRAWINGS.

ITEM	CROSS REF.	SPEC. REF.

ISSUE DATE	APPROVED BY
03/11/2009	V.F.C.
07/20/2016	D.V.

MIAMI-DADE COUNTY — Delivering Excellence Every Day — WATER & SEWER DEPARTMENT

STANDARD DETAIL
"RECORD DRAWING" REQUIREMENTS

GS 0.5 — SHEET 2 OF 2

FOR ALL PROJECT WHERE REMOVAL OF UTILITY LINES IS PROPOSED

1. ALL EXISTING UTILITIES BEING REMOVED AND/OR RELOCATED MUST REMAIN ACTIVE AND IN SERVICE, UNTIL SUCH TIME WHEN NEW REPLACING UTILITIES HAVE BEEN INSTALLED, IN SERVICE ACCEPTED BY THE DEPARTMENT AND ALL RELATED SERVICES FROM EXISTING MAINS HAVE BEEN TRANSFERED TO THE NEW ONE, BY A LICENSED CONTRACTOR UNDER THE SUPERVISION OF WASD LICENSED OPERATOR AND WASD DONATIONS INSPECTOR UNDER THE SCOPE AND JURISDICTION OF THE CONTRACTORS RIGHT-OF-WAY PERMIT AS APPLICABLE.
2. ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES TO OR FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS.ANY RELATED EXCLUSIVE EASEMENT SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

S.S.O.C.O.F. DESIGN TICKET
NO. 311406695 - DATE: 11/06/24

Sunshine811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

THESE NOTES ARE NOT PART OF M.D.W.A.S.D. APPROVAL

MIAMI-DADE COUNTY

RER-DERM WATER-SEWER GENERAL NOTES

1. A horizontal distance of at least 6 feet, and preferably 10 feet (outside to outside), shall be maintained between gravity or pressure sewer pipes and water pipes. The minimum horizontal separation can be reduced to 3 feet for vacuum-type sewers or for gravity sewers where the top of the sewer pipe is at least 6 inches below the bottom of the water pipe. When the above specified horizontal distance criteria cannot be met due to an existing underground facility conflict, smaller separations are allowed if one of the following is met:
   a) The sewer pipes are designed and constructed equal to the water pipe and pressure tested at 150 psi.
   b) The sewer is encased in a watertight carrier pipe or concrete.
   c) The top of the sewer is at least 18 inches below the bottom of the water pipe.
2. A vertical distance of at least 12 inches (outside to outside) shall be maintained between any water and sewer mains with sewer pipes preferably crossing under water mains. The minimum vertical separation can be reduced to 6 inches for vacuum-type sewers or for gravity sewers where the sewer pipe is below the water main. The crossing shall be arranged so that all water main joints are at least 6 feet from all joints in gravity and pressure sewer pipes. This distance can be reduced to 3 feet for vacuum-type sewers. When the above specified vertical distance criteria cannot be met due to an existing underground facility conflict, smaller separations are allowed if one of the following is met:
   a) The sewer pipes are designed and constructed equal to the water pipe and pressure tested at 150 psi.
   b) The sewer is encased in a watertight carrier pipe or concrete.
3. Air release valves shall be provided at high points of new force main sanitary sewers.
4. Gravity sanitary sewers constructed within a public wellfield protection area shall be C-900 PVC or Ductile Iron Pipe. The maximum allowable exfiltration rate of gravity sanitary sewers constructed in a public wellfield protection area shall be:
   a) Residential Land Uses. Fifty (50) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe.
   b) Non-Residential Land Uses. Twenty (20) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe.
   c) Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
5. The maximum allowable exfiltration rate of gravity sanitary sewers constructed outside a public wellfield protection area shall be one hundred (100) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe. Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
6. Forcemain sanitary sewers constructed within a public wellfield protection area shall be ductile iron, C-900 PVC, HDPE or reinforced concrete pressure sewer pipes.
7. The maximum allowable exfiltration/leakage rate of forcemain sanitary sewers shall be:
   a) Ductile Iron, C-900 PVC, HDPE and PVC Pipe. The allowable leakage rate specified in American Water Works Association Standard (AWWAS) C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours.
   b) Reinforced Concrete Pressure Pipe. Half (1/2) the allowable leakage rate specified in AWWA C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours.
   c) Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
8. The contractor shall verify nature, depth, and character of existing underground utilities prior to start of construction.
9. In no case shall a contractor install utility pipes, conduits, cables, etc. in the same trench above an existing water or sewer pipe except where they cross.
10. If any area of the work site is found to contain buried solid waste and/or ground or ground water contamination, the following shall apply:
    a) All work in the area shall follow all applicable safety requirements (e.g., OSHA, etc.) and notification must be provided to the appropriate agencies.
    b) Immediately notify the Environmental Monitoring and Restoration Division (EMRD). The EMRD can be contacted at (305) 372-6700.
    c) If contaminated soils and/or buried solid waste material is excavated during construction, then they require proper handling and disposal in accordance with the local, state and federal regulations. Be advised that the landfill owner/operator is the final authority on disposal and may have requirements beyond those provided by herein. If disposal within a Miami-Dade County owned landfill (Class I landfill) is appropriate and selected, please contact the Miami-Dade County Department of Solid Waste Management at (305) 594-6666 for information.
    d) The reuse of contaminated soils that are not returned to the original excavation requires prior approval of a Soil Management Plan from the Environmental Monitoring and Restoration Division. The EMRD can be contacted at (305) 372-6700.
11. Pumps must comply with the National Electrical Code (NEC) requirements for Class I, Group D, Division 1 locations (Explosion Proof).
12. The contractor is advised that a Tree Removal/Relocation Permit may be required prior to the removal and/or relocation of tree resources. Prior to removing or relocating any trees, the Contractor shall notify the Tree and Forest Resources Section of DERM at (305) 372-6574 or via e-mail at: tfrs@miamidade.gov , or contact the municipality with tree ordinance jurisdiction to obtain any required permits. Those trees not interfering with the construction shall be protected in place in accordance with the provisions of Section 24-49.5 of the Miami-Dade Code.
13. Please note that the demolition, removal, and/or disturbance of existing underground utilities that contain asbestos- cement pipes (ACP) are subject to the provisions of 40 CFR-61 Subpart M. Therefore, pursuant to the provisions of 40 CFR-61-145, a NOTICE OF DEMOLITION OR ASBESTOS RENOVATION form must be filed with the Air Quality Management Division (AQMD) of DERM, at least ten (10) working days prior to starting of any work. Note that the backfilling and burial of crushed ACP would cause these locations to be considered active disposal sites and subject to 40 CFR-61.154, and 40 CFR-61.151 a year after project completion.
    Existing standard operating procedures, as well as applicable federal, state and local regulatory criteria, must be followed and implemented to minimize any potential release of fugitive emissions, especially during project construction activities. The AQMD can be contacted via email at asbestos@miamidade.gov or 305-372-6925.

Rev. 4/30/2018

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NOTES:

2. ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND PROP. WATER & FORCE MAINS AND FITTINGS TO BE RESTRAINED PER GS 2.0.
3. ALL PROPOSED SEWER LATERALS TO COMPLY WITH STANDARD DETAILS GS 1.5, SS 1.0, SS 3.1, AND SS 3.2 AS APPLICABLE.
4. ALL WATER & SEWER CROSSINGS PER GS 1.5
5. PROPOSED PUBLIC SANITARY CLEANOUTS INSTALLED UNDER VARIOUS GROUND SURFACES: INSTALLED ON CONCRETE SIDEWALK PER WASD DETAIL SS 22.0, ON GRASS AREA PER WASD DETAIL SS 21.0, ON DRIVING SURFACES WITH VALVE BOX AND LID PER SS 13.0.
6. DEVELOPER SHALL PROVIDE MIN. 5-FT FACE TO FACE HORIZONTAL SEPERATION FROM THE PROPOSED WATER AND SEWER SERVICES TO ALL SORROUNDING STRUCTURES OR TREES OR LANDSCAPE FEATURES.
7. CONTRACTOR TO FIELD VERIFY, PRIOR TO CONSTRUCTION, INVERTS, PIPE SIZES, AND MATERIAL FOR ALL EXISTING UTILITIESCONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD ABOUT ANY DISCREPANCIES FOUND.
8. ALL EXISTING UTILITIES AT CROSSING WITH PROPOSED SANITARY LATERAL SHALL BE FIELD VERIFIED FOR INVERTS, PIPE SIZES, AND MATERIAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY TO THE ENGINEER OF RECORD ABOUT ANY DISCREPANCIES FOUND.
9. CONTRACTOR TO OBTAIN FROM FDOT THEIR UNDERGROUND UTILITY AND ROADWAY RECORDS FOR ADDITIONALUNDERGROUND UTILITIES WITHIN THE PROJECT BOUNDARIES TO AVOID POTENTIAL CONFLICTS.

ENGINEER'S CERTIFICATION REQUIREMENTS:

1. SURFACE RESTORATION, PAVEMENT REPLACEMENT, SIDEWALK REPLACE, TRENCH BACKFILL AND COMPACTION SHALL COMPLY WITH MIAMI-DADE STANDARD DETAILS G51.9, S51.9, A1.0, A1.1, AND A4.0, M-DCPWD STANDARD DETAIL R21.1 AND THE APPLICABLE CURRENT CITY OF DORAL WORKS.
2. THE WATER AND/OR SEWER STAKEOUTS, PIPE COVER AND/OR INVERT ELEVATIONS AND DETERMINATION OF EASEMENT GEOMETRY SHALL BE PERFORMED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR AT THE TIME OF INSTALLATION.
3. THE ENGINEER-OF-RECORD SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE BEFORE INSTALLATION, TESTING AND BACKFILLING OF ANY LINES.
4. IMMEDIATELY UPON COMPLETION OF THE TESTS, THE ENGINEER-OF-RECORD SHALL BE PROVIDED WITH COPIES OF THE REPORTS SHOWING SATISFACTORY RESULTS OF THE FOLLOWING:
   1. BACTERIOLOGICAL TESTING (WATER).
   2. PRESSURE TESTING (WATER & FORCE MAINS).
   3. BACKFLOW PREVENTOR TESTS (WATER).
   4. EXFILTRATION TESTS (SEWER).
   5. DENSITY TESTS (WATER & SEWER).
   6. LAMPING REPORT (SEWER).
   7. TELEVISED INSPECTION OF ALL GRAVITY SANITARY SEWER MAINS AND LATERALS (SEWER).
5. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER-OF-RECORD FOR REVIEW PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS.
6. CONTRACTOR SHALL PROVIDE THE ENGINEER-OF-RECORD WITH A SET OF FINAL "AS-BUILT" DRAWINGS, SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR, FOR ENGINEER'S REVIEW AND FILE.
7. CERTIFICATION OF COMPLETION IN ACCORDANCE WITH PLANS & SPECIFICATIONS WILL "NOT" BE ISSUED BY THE ENGINEER-OF-RECORD TO THE APPROPRIATE PERMITTING AGENCIES UNTIL ALL THE REQUIREMENTS DESCRIBED HEREIN HAVE BEEN MET.

HEALTH DEPARTMENT NOTES:

(NOT A PART OF MD-DWASD NOTES OR APPROVAL)

WATER MAIN HORIZONTAL SEPARATIONS:

SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE BETWEEN WATER MAINS AND AND STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM.

BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM.

GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6 FT. MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAINS IS AT LEAST 6 INCHES ABOVE TOP OF SEWER.

10 FT. TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.

WATER MAIN VERTICAL SEPARATIONS:

SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWERS, TO BE PREFERABLY 12 INCHES, OR AT LEAST 6 INCHES ABOVE, OR AT LEAST 12 INCHES IF BELOW*

PRESSURE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.*

*NOTE: CENTER 1-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES 50 JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

ENGINEER'S NOTES:

1. THE WATER AND/OR SEWER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PUBLISHED AND CURRENT STANDARDS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND UNDER THE INSPECTION OF THEIR PERSONNEL.
2. THE APPROXIMATE LOCATION OF ALL UTILITIES SHOWN HEREON WERE DETERMINED FROM "AS-BUILT" PLANS AND/OR FIELD LOCATION AND MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION.
3. CONTRACTOR TO VERIFY LOCATION, ELEVATION, MATERIAL AND CONDITION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. AFTER OBTAINING LOCATION FROM SUNSHINE AND OTHER UTILITY COMPANIES, AND PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL UNCOVER ALL KNOWN UNDER-GROUND UTILITIES IN THE PATH OF THE WORK, WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS AND SHALL TAKE VERTICAL AND HORIZONTAL MEASUREMENTS OF THE LOCATIONS OF THESE UTILITIES, AND IF ANY CONFLICTS ARE APPARENT, REPORT THE MEASUREMENTS TO THE ENGINEER-OF-RECORD.
4. CONTRACTOR TO CONTACT ENGINEER-OF-RECORD IF EXISTING UTILITIES ARE NOT SHOWN ON THE PLANS.
5. ALL LANDSCAPING AND IRRIGATION DISTURBED SHALL BE REPLACED WITH LIKE KIND.
6. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE " TRENCH SAFETY ACT", AND ALL REQUIREMENTS OF O.S.H.A.
7. ALL BRANCH VALVES ARE TO BE TIED TO TEES.
8. ALL REQUIRED BACTERIOLOGICAL SAMPLING POINTS SHALL BE INSTALLED BY THE CONTRACTOR AND ALL BACTERIOLOGICAL TESTS PERFORMED BY HIM PER THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF H.R.S.
9. ALL REQUIRED FLUSHING, CLEANING PRESSURE TESTING AND BACTERIOLOGICAL TESTING SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE CONTRACTORS BID FOR THE WORK.
10. SHOP DRAWINGS SHALL BE CHECKED AND APPROVED BY THE CONTRACTOR AND THEN ONE COPY SUBMITTED TO THE ENGINEER-OF-RECORD FOR REVIEW PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS. SHOP DRAWINGS NEED TO BE REVIEWED AND APPROVED BY M-DWASD PLANS REV. UNIT BEFORE PRE-CONSTRUCTION MEETING CAN BE SCHEDULED (TYPICAL).
11. THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT OR CONSTRUCT THE PROJECT. AN ELECTRONIC FILE OR GEOMETRIC CONTROL SHEET WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER.
12. ALL PAVEMENT RESTORATION SHALL COMPLY WITH THE REQUIREMENTS OF MIAMI-DADE COUNTY PUBLIC WORKS MANUAL, F.D.O.T. FLORIDA BUILDING CODE, AND/OR THE SPECIFIC MUNICIPALITY STANDARDS.
13. LOCATION OF THE PUBLIC WATER SYSTEM MAINS SHALL COMPLY WITH THE LATEST FLORIDA ADMNSTRATIVE CODE (F.A.C.) RULE 62-555.314.

BACKFLOW PREVENTER NOTES:

1. PRIOR TO THE INSTALLATION OF THE BACKFLOW PREVENTER DEVICE, APPROVAL FROM THE APPLICABLE BUILDING AND ZONING DEPARTMENT AND FIRE DEPARTMENT SHALL BE REQUIRED.
2. PRIOR TO THE INSTALLATION OF ANY WATER METER THE BACKFLOW PREVENTER DEVICE MUST BE INSPECTED AND RELEASED BY THE APPLICABLE BUILDING AND ZONING DEPARTMENT.
3. INSTALLATION OF THE BACK FLOW PREVENTER DEVICE SHALL BE PERFORMED BY A CERTIFIED PLUMBING CONTRACTOR.
4. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THE FOLLOWING FOLLOWING BACKFLOW PREVENTION ASSEMBLIES:
   A. FEBCO MODEL LF876V STANDARD R.P.Z.A. (N-SHAPE) ORIENTATION D.C.D.A. (O.A.E.)
   B. FEBCO MODEL LF825Y R.Z.P.A. (O.A.E.)
   C. FEBCO MODEL 765 P.V.B. (O.A.E.)

SURVEYOR'S NOTES:

ELEVATIONS AS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, AS PER MIAMI-DADE COUNTY'S BENCHMARK NUMBER M-120, ELEVATION 10.04 FEET.

THIS PROPERTY IS TO BE LOCATED IN FLOOD ZONE "X", AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), COMMUNITY NUMBER 120041 (CITY OF DORAL), MAP PANEL NO. 12086C0278, SUFFIX L, MAP REVISED DATE: SEPTEMBER 11, 2009.

M-DWASD
AGREEMENT ID#32880

This item has been digitally signed and sealed by Rodrigo Bermudez, PE on the date adjacent to the seal.
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RODRIGO BERMUDEZ — LICENSE No. 98720 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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C	09/23/2025	REVISED PER COMMENTS FROM CITY OF DORAL

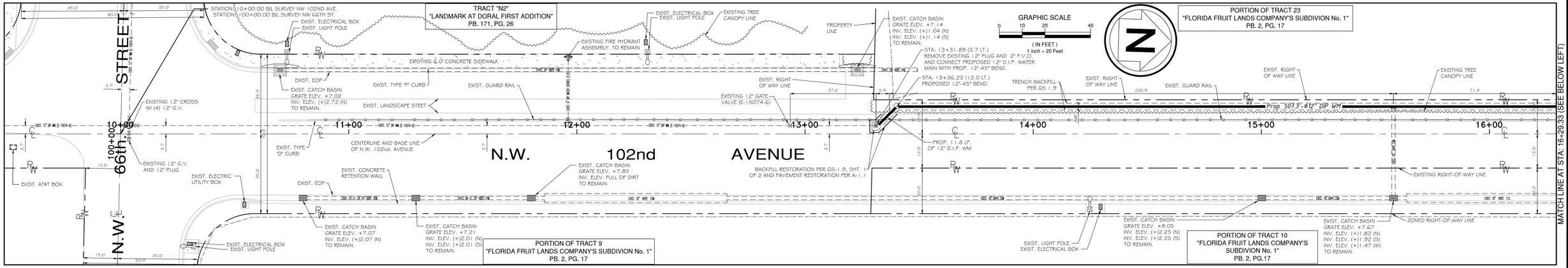
FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

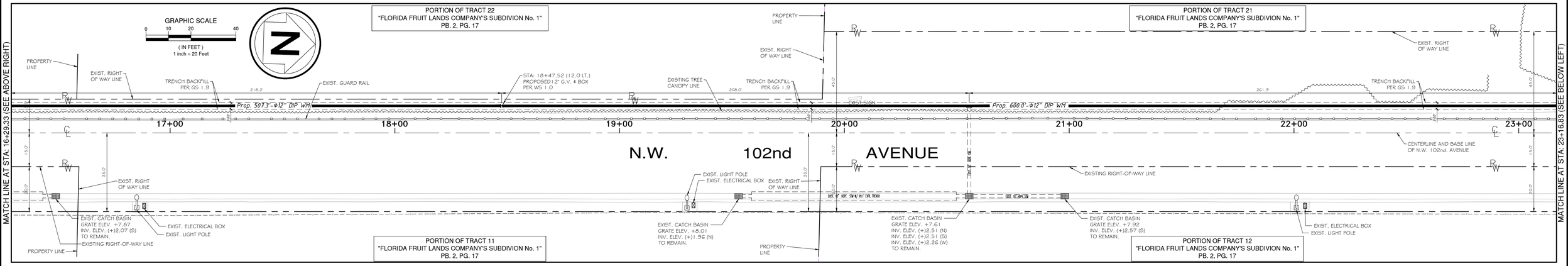
NOTES AND SPECIFICATIONS
WATER AND SEWER SET

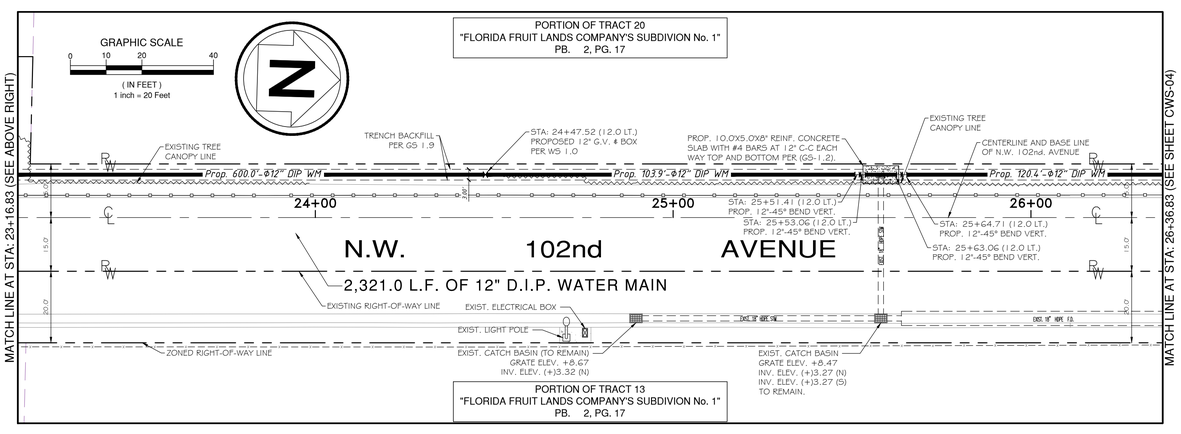
PRIME SQUARE DORAL
DORAL, FL 33178

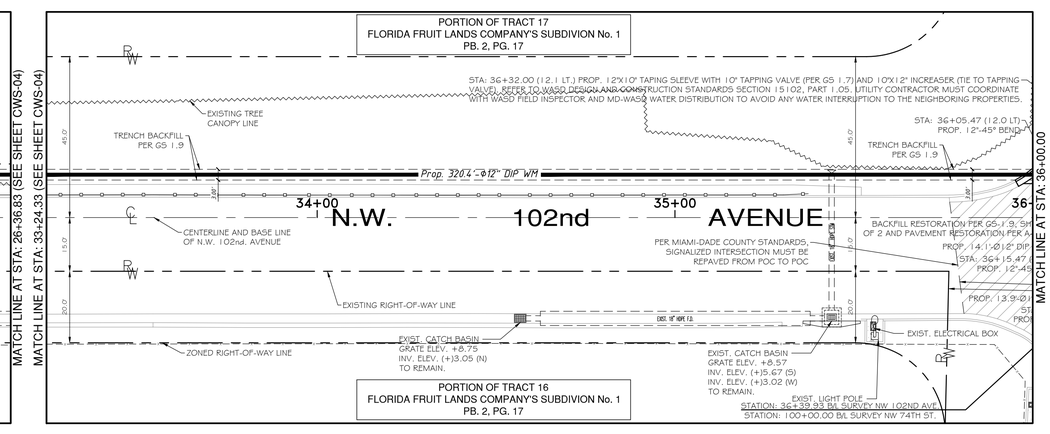
Job. No. 247005	Dwg. No. 8024-005
Cad. No. 240595CP	Scale N/A
Ref. Dwg. S.B.O.	Drawn By. JDI

Date 11/22/2024
Sheet CWS-02 of 8









S.S.O.C.O.F. DESIGN TICKET
NO. 311406695 - DATE: 11/06/24

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M-DWASD
AGREEMENT ID#32880

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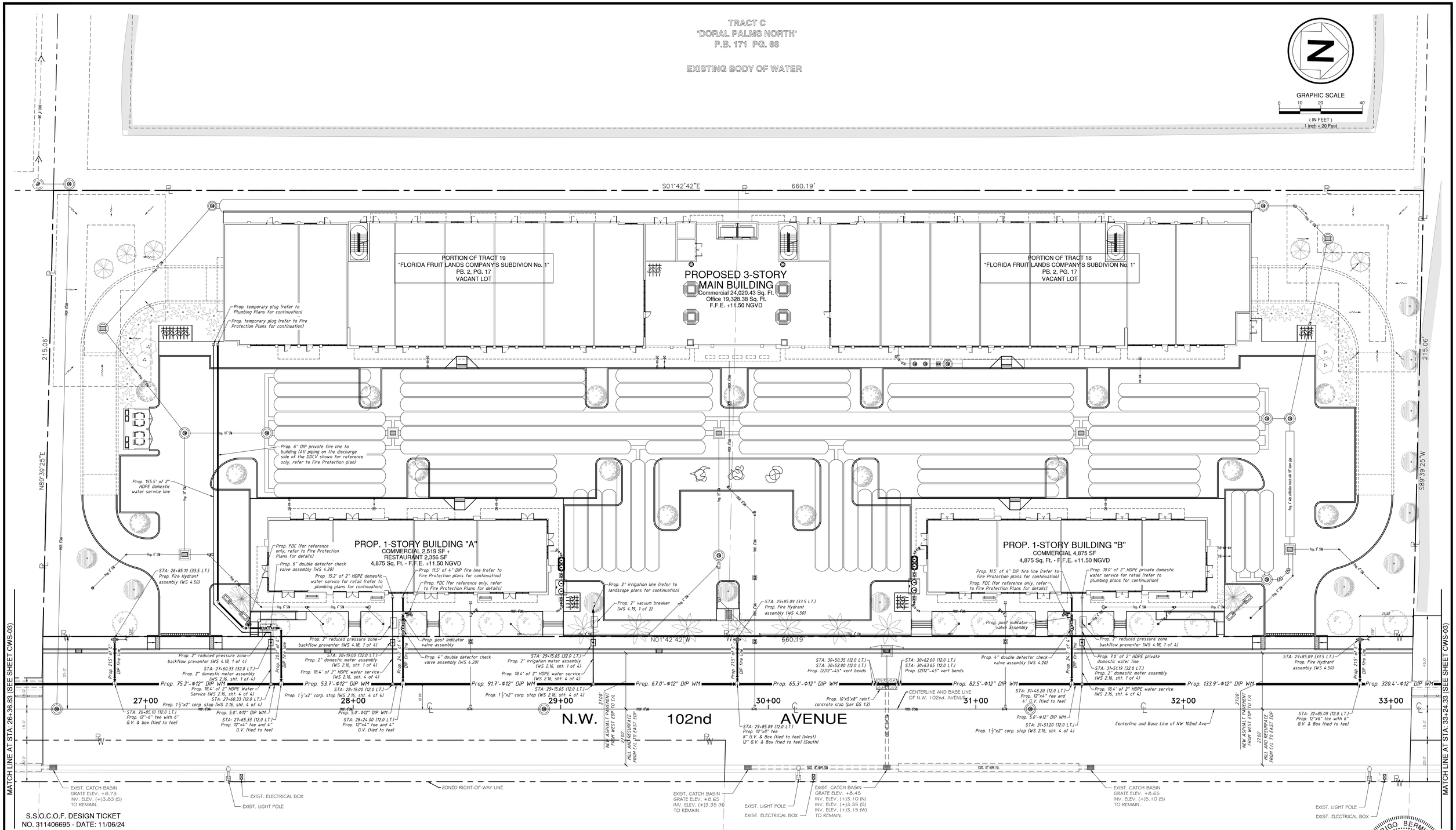
WATER MAIN EXTANTION PLAN

WATER AND SEWER SET

PRIME SQUARE DORAL

DORAL, FL 33178

Job. No. 247005	Dwg. No. 8024-005
Cad. No. 240595CP	Scale 1" = 20'
Ref. Dwg. S.B.O.	Drawn By. JDI
Date 11/22/2024	Sheet CWS-03 of 8



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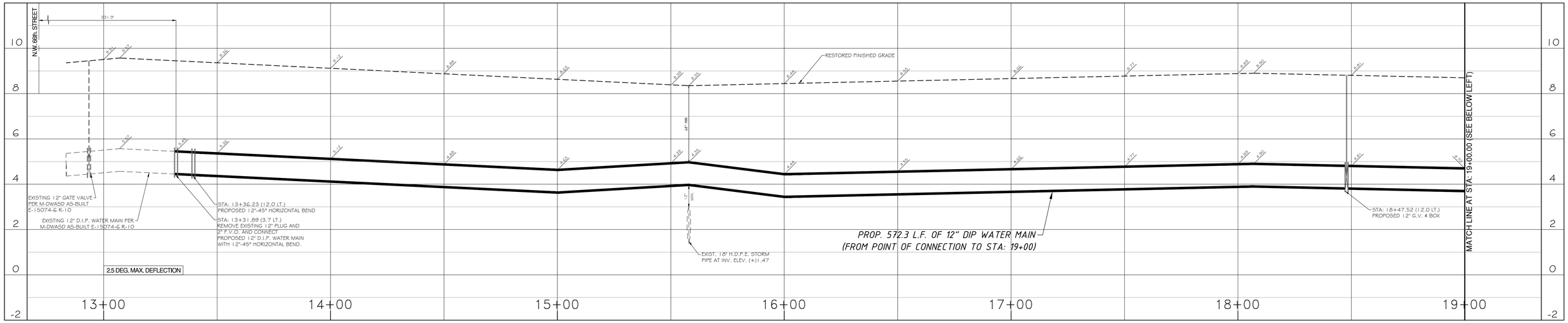
WATER MAIN EXTENSION PLAN

WATER AND SEWER SET

PRIME SQUARE DORAL

DORAL, FL 33178

Job. No.	247005
Cad. No.	240595CP
Ref. Dwg.	S.B.O.
Dwg. No.	8024-005
Scale	1" = 20'
Drawn By.	JDI
Date	11/22/2024
Sheet	CWS-04 of 8



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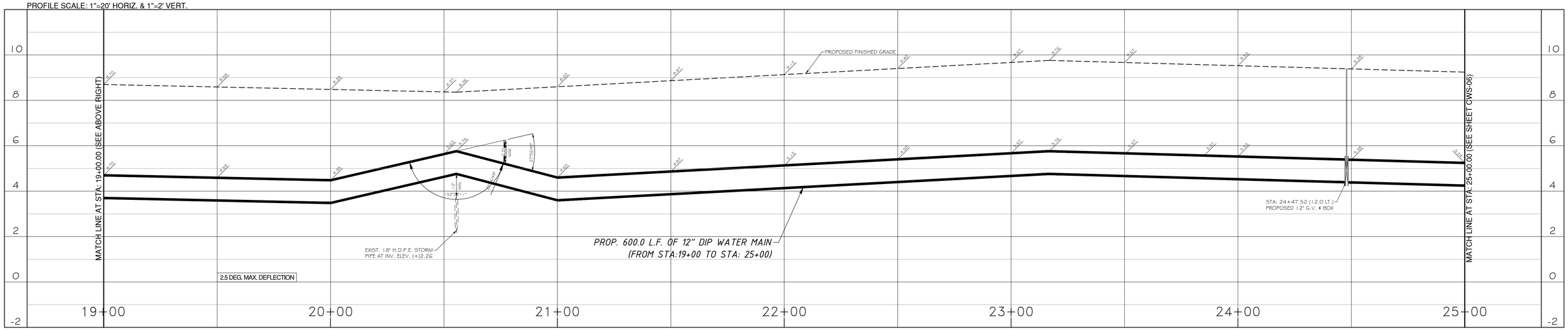

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WATER MAIN PROFILES
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Cad. No. 240595CP	Scale 1" = 20'
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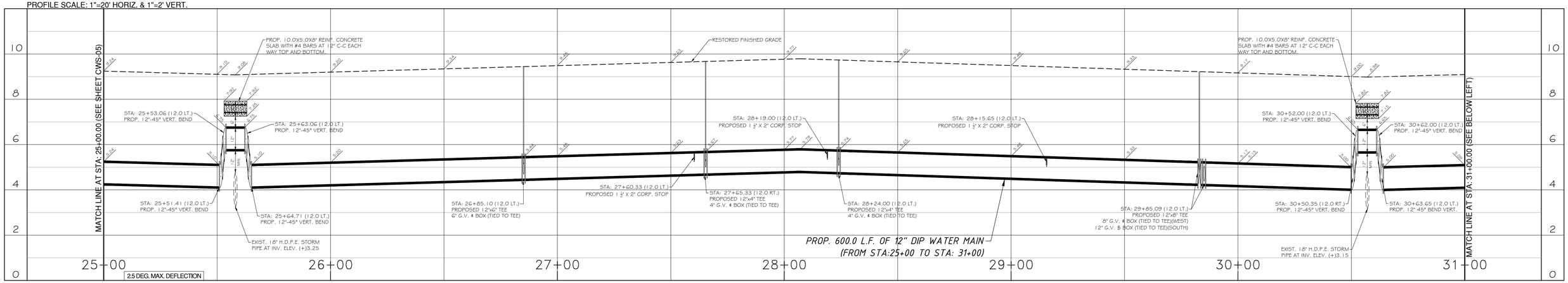

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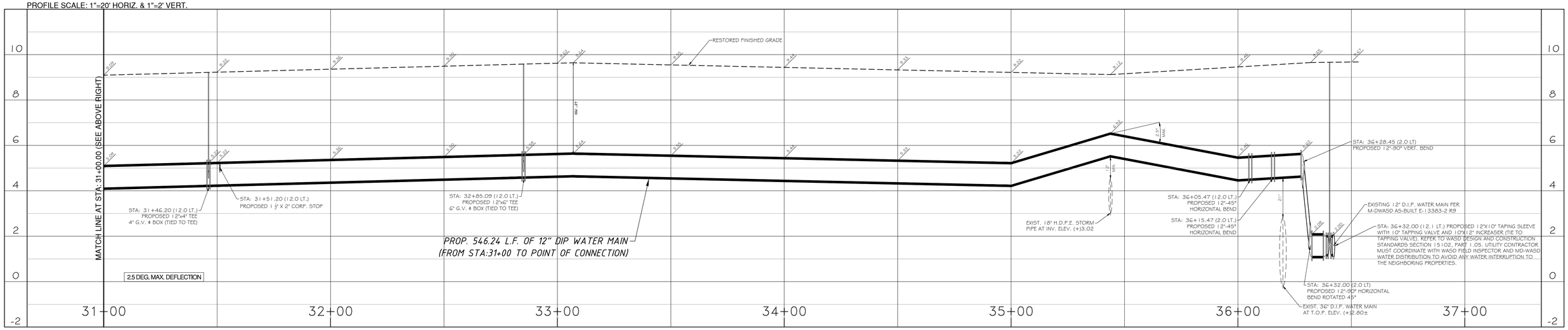

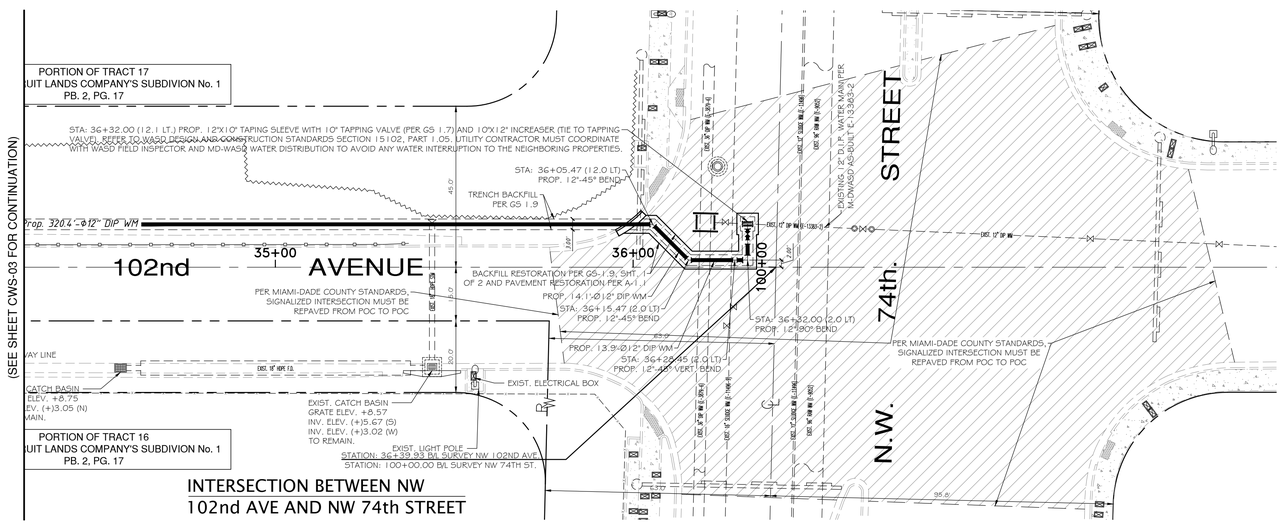

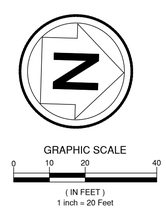

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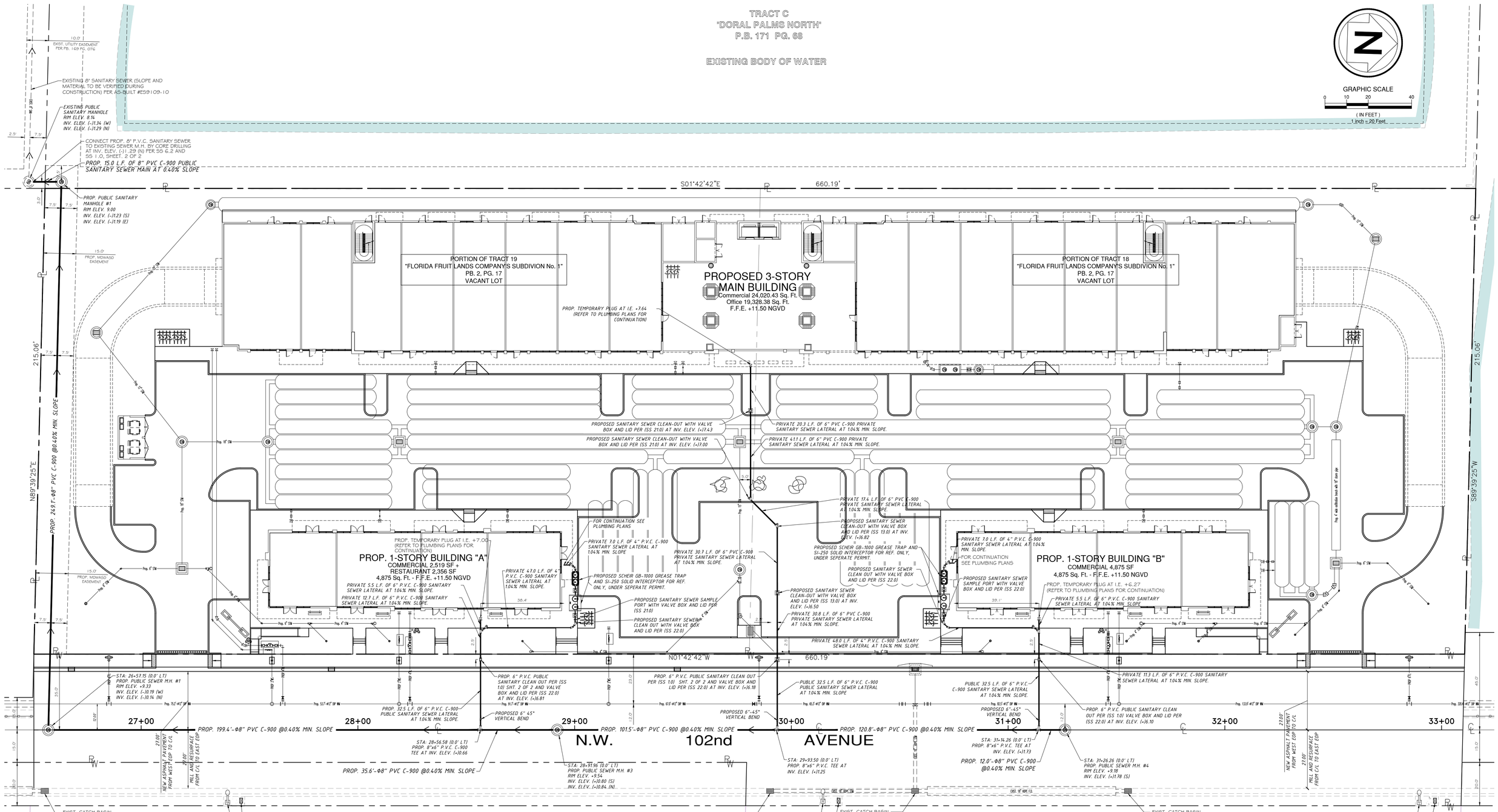
WATER MAIN PROFILES

WATER AND SEWER SET

PRIME SQUARE DORAL

DORAL, FL 33178

Job. No. 247005	Dwg. No. 8024-005
Cad. No. 240595CP	Scale 1" = 20'
Ref. Dwg. S.B.O.	Drawn By. JDI
Date 11/22/2024	Sheet CWS-06 of 8



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MIAMI-DADE COUNTY RESOURCE RECOVERY FACILITY

MIAMI-DADE COUNTY RESOURCE RECOVERY FACILITY

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SANITARY SEWER PLAN

WATER AND SEWER SET

PRIME SQUARE DORAL

DORAL, FL 33178

Job. No.	247005
Cad. No.	240595CP
Ref. Dwg.	S.B.O.
Dwg. No.	8024-005
Scale	1" = 20'
Drawn By.	JDI
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Sheet	CWS-07 of 8

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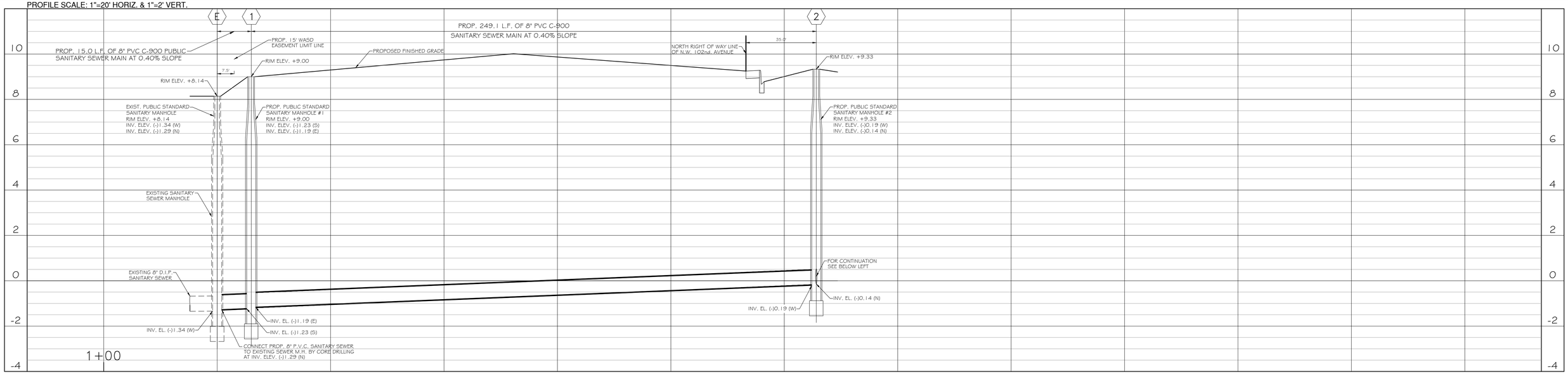

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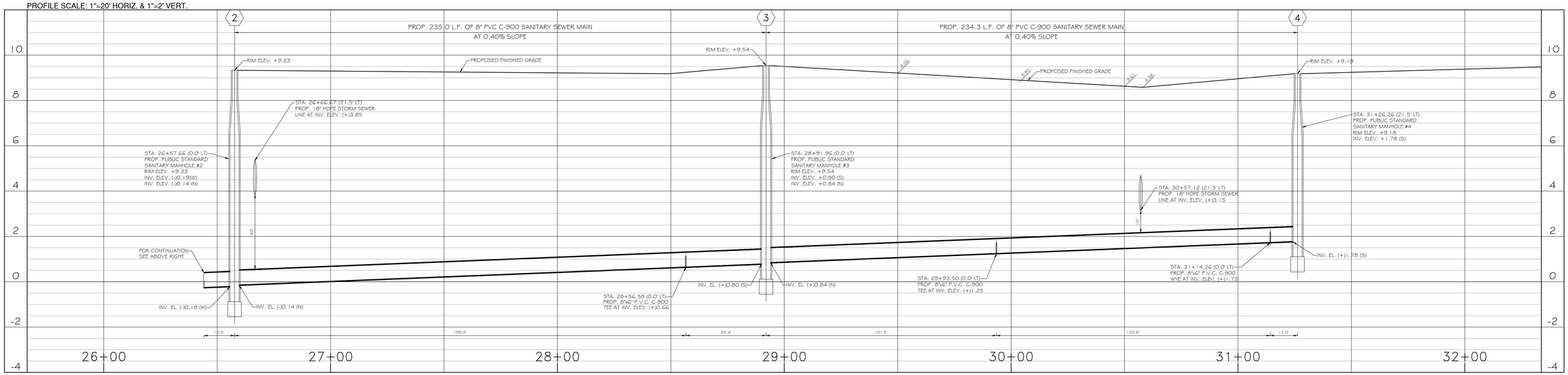

N.W. 102nd AVENUE

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SANITARY SEWER PROFILES

WATER AND SEWER SET

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DORAL, FL 33178

Job. No. 247005	Dwg. No. 8024-005
Cad. No. 240595CP	Scale 1" = 20'
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