

MIAMI-DADE WATER AND SEWER DEPARTMENT ENGINEERING AND DESIGN DIVISION

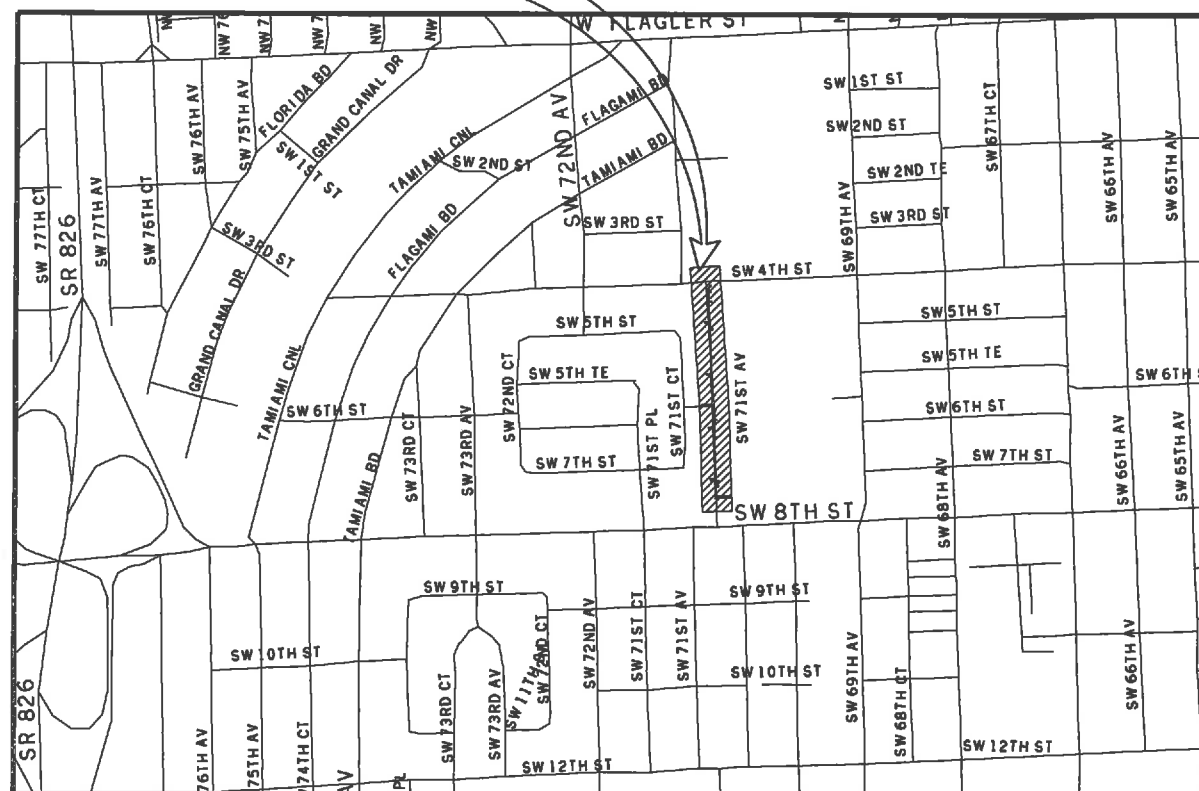
3071 S.W. 38th AVENUE MIAMI, FLORIDA 33146-1520

INSTALLATION 12-INCH D.I. WATER MAIN IN SW 71st AVE. FROM SW 8th ST. TO SW 4th ST.

PCTS No. 14591 ER No. WO17004

CITY OF MIAMI J.P.A. PROJECT No.B-50405

PROJECT
LOCATION



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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

444 S.W. 2ND AVENUE, 8TH FLOOR
MIAMI, FLORIDA 33130
(305) 416-1213 FAX (305) 416-1253

LOCATION PLAN

CITY/COUNTY

A PORTION OF SEC. 02 - TWP. 54. - RGE. 40 E.
N.T.S.

Always call 811 two full business days before you dig



CITY OF MIAMI PROJECT MANAGER: ORLANDO MISAS
M-D WASD PROJECT MANAGER: JOSE DIAZ

DWG. HISTORY	DATE	BY	REV No.	DATE	DESCRIPTION	BY
REVIEW 100%	08/13/2016	A.A.				
REVIEW 90%	08/12/2016	A.A.				
REVIEW 60%	07/15/2016	A.A.				
REVIEW 30%	07/11/2016	A.A.				
		CHIEF ENGINEER	APPROVED BY		APPROVED BY	PROJECT ER No.: WO17004
		DRAWN: N.P.	DATE: 09/13/16		SHEET WM-01 OF WM-16	PCTS No.: 14591
		FILE NAME: Keysrd01.DGN		DWG. No.		

GENERAL NOTES

- THE FOLLOWING UTILITY COMPANIES SHOULD BE NOTIFIED 48 HOURS IN ADVANCE OF EXCAVATION IN AREA:
 - FPL - FLORIDA CITY GAS
 - AT&T/DISTRIBUTION - DADE COUNTY PUBLIC WORKS & TRAFFIC
 - COMCAST - FLORIDA POWER & LIGHT TRANSMISSION
 - MIAMI DADE WATER SEWER - ATLANTIC BROADBAND
- ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM, 1929 ADJUST.
- VALVES AT INTERSECTIONS, BRANCH MAINS OR STOP OUTS SHALL BE RESTRAINED TO THE ADJACENT FITTING UNLESS OTHERWISE NOTED.
- CUTTING AND PLUGGING OF EXISTING MAINS SHALL BE ACCOMPLISHED BY MECHANICALLY RESTRAINING THE PLUG OR CAP. SUFFICIENT LENGTH OF PIPE SHALL BE PROVIDED TO INSURE THE STABILITY OF THE INSTALLATION.
- STATIONING SHOWN IS ALONG THE BASELINE OF SURVEY. GRADING SHOWN IS ALONG THE PROPOSED PIPE ALIGNMENT.
- EXACT LOCATIONS OF SERVICES TO BE DETERMINED IN THE FIELD.
- FOR REQUIREMENTS FOR MECHANICAL THRUST RESTRAINT, SEE STANDARD DETAIL GS 2.0
- THERE MAY BE OTHER EXISTING UTILITIES IN THE AREA WHICH ARE NOT SHOWN ON THE PLANS, DUE TO FAILURE OF THESE UTILITIES TO RESPOND TO OUR REQUEST FOR INFORMATION.
- IF EVIDENCE OF POTENTIAL CONTAMINATION IS DETECTED DURING EXCAVATION, STOP EXCAVATION WORK AND NOTIFY WASD HAZARDOUS MATERIALS MANAGEMENT SECTION AT (786) 552-8400 AND THE CONSTRUCTION CONTRACTS MANAGEMENT DIVISION AT (786) 268-5191. EVIDENCE OF POTENTIAL CONTAMINATION MAY INCLUDE ANY OF THE FOLLOWING: 1. ODOR 2. SOLID WASTE DEBRIS 3. SHEEN ON THE GROUNDWATER 4. STAINED OR SATURATED SOIL (SOIL THAT CONTAINS PRODUCT THAT DRAINS WHEN IT IS HANDLED OR CREATES STREAKS ON EXCAVATION TOOLS) OR 5. FREE FLOATING PRODUCT ON THE GROUNDWATER (OIL, DIESEL, GASOLINE, ETC.). MATERIAL THAT HAS ODOR, IS STAINED OR IS SATURATED MUST BE SEGREGATED ON AN IMPERMEABLE SURFACE FOR APPROPRIATE FUTURE DISPOSAL.
- ALL PIPE AND FITTINGS INSTALLED UNDER THIS PROJECT MUST BE COLOR CODED WITH BLUE PAINT AS STATED IN THE FLORIDA ADMINISTRATIVE CODE, SUBPARAGRAPH 62-555.320(21)(B)3 AND AS REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. IF PAINT IS APPLIED DURING INSTALLATION OF THE PIPE, THE PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ON THE TOP OF THE PIPE. FOR PIPES WITH AN INTERNAL DIAMETER OF 24-INCHES OR GREATER, PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
- USE CAUTION WHEN EXCAVATING AROUND UTILITIES PER SPECIFICATION SECTION 6.00.3
- PAVEMENT RESTORATION TO BE DONE IN ACCORDANCE WITH CITY OF MIAMI PUBLIC WORKS DEPARTMENT REQUIREMENTS UNLESS OTHERWISE NOTED.
- THE ENGINEER-OF-RECORD IS IN RESPONSIBLE CHARGE FOR THE DESIGN PART OF THIS PROJECT ONLY. THE DEPARTMENT, THROUGH THE CONSTRUCTION CONTRACTS MANAGEMENT DIVISION, WILL ASSIGN A FLORIDA LICENSED PROFESSIONAL ENGINEER TO TAKE RESPONSIBLE CHARGE OF INSPECTING THE CONSTRUCTION OF THIS PROJECT AND TO DETERMINE, IN GENERAL, IF THE CONSTRUCTION PROCEEDS IN COMPLIANCE WITH THE CONSTRUCTION PERMITS AND TO SUBMIT COMPLETE RECORD DRAWINGS AND CERTIFICATION OF CONSTRUCTION COMPLETION TO THE PERMITTING AGENCIES, AND TO OBTAIN WRITTEN APPROVAL OR CLEARANCE BEFORE PLACING THE MAINS IN SERVICE.
- LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY OF THE FACILITIES SHOWN OR NOT SHOWN. CONTRACTOR IS TO FIELD VERIFY THE ELEVATION, TYPE OF PIPE AND LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER/ENGINEER-OF-RECORD THROUGH THE ASSIGNED MDWASD CONSTRUCTION PROJECT MANAGER SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE SAID CONFLICT. CONTRACTOR TO NOTIFY SUNSHINE STATE ONE CALL OF FLORIDA, INC. BY CALLING 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING.
- MILLING AND RESURFACING PAVEMENT RESTORATION WILL BE AS SHOWN ON PLANS.
- IN AREAS WHERE POLLUTED GROUND WATER WILL OR MAY BE DRAWN INTO THE DEWATERING SYSTEM AND THE MDWASD HAS GRANTED PERMISSION TO INSTALL THE SYSTEM COMPONENTS VIA THE "ALTERNATE METHOD OF CONSTRUCTION", I.E. IN THE WET, AND THE CONTRACTOR ELECTS TO PERFORM DEWATERING AS PART OF THE WORK, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS, SUBMIT AND OBTAIN ANY AND ALL REQUIRED DEWATERING/CONTAMINATION PERMIT APPROVALS (INCLUDING ANY ANCILLARY PERMITS THAT MAY BE REQUIRED, I.E. FROM R.E.R. WATER CONTROL OR POLLUTION CONTROL) PRIOR TO COMMENCING THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE DEPARTMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES CONTAINED WITHIN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE MUNICIPALITY OR ANY OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G. HYDROSEEDING MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, ETC) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRUSION OF DIRT, MUD, OR DEBRIS INTO EXISTING PUBLIC STREETS, WATERWAYS, OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PERMIT (GCP) AND A NOTICE OF INTENT (NOI) TO USE SAID GENERIC PERMIT AS PROVIDED IN SUBSECTION 62-621.300(4), F.A.C. PURSUANT TO THE STATE'S FEDERALLY APPROVED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER REGULATORY PROGRAM (NPDES). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS AND OBTAIN ALL REQUIRED APPROVALS PRIOR TO COMMENCEMENT OF THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE DEPARTMENT.
- IF EXISTING SERVICE LINES ARE GALVANIZED PIPE, REPLACE WITH 1" COPPER SERVICE WITH DIELECTRIC ADAPTERS.
- RECONNECT EXISTING SERVICES TO PROPOSED 12" WATER MAIN.
- PROJECT SPECIFICATIONS SHALL CONFORM TO THE MD-WASD DESIGN AND CONSTRUCTION STANDARD SPECIFICATIONS AND DETAILS.

THE FOLLOWING ARE REQUIREMENTS PER DEPARTMENT OF HEALTH

WATER MAIN HORIZONTAL SEPARATIONS

SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE.

BETWEEN WATER MAINS 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.*

*GRAVITY SEWER ONLY MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAIN 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 BELOW*.

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

* CENTER 1-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO 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.

NOTE: IN ALL CASES, INCLUDING EXCEPTIONS, REFER TO F.A.C. 62-555.314

MIAMI-DADE WATER AND SEWER DEPARTMENT DESIGN AND CONSTRUCTION STANDARD DETAILS

FOR	SEE DETAIL	SHEET
PAVEMENT RESTORATION TYPE V	A-1.1	1 OF 1
PAVEMENT RESTORATION TYPE M	A-4.0	1 OF 1
POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE.	A-9.0	1 OF 1
ABBREVIATIONS FOR DEPARTMENT'S PROJECTS.	A-10.0	1, 2 & 3 OF 3
STANDARD REQUIREMENTS FOR WATER & SEWER CONSTRUCTION	GS-0.5	1 OF 2
"AS-BUILT" REQUIREMENTS	GS-0.5	2 OF 2
TYPICAL TIE-ROD DETAILS.	GS-1.0	1 OF 1
WATER AND GRAVITY SEWER MAIN CROSSINGS	GS-1.5	1 OF 1
TYPICAL TRENCH BACKFILL FOR D.I. WATER.	GS-1.9	1 OF 1
AIR RELEASE VALVE.	WS-1.60	1 OF 1
TYPICAL FLUSHING VALVE OUTLET.	WS-1.61	1 OF 1
No. 2 C.I. VALVE BOX AND LID	WS-3.10	1 OF 1
No. 3 C.I. VALVE BOX	WS-3.11	1, 2 OF 2
TYPICAL FIRE HYDRANT INSTALLATION W/GUARD POSTS	WS-4.50	1 OF 2

NOTES:

- THE ABOVE LIST SHALL NOT BE CONSIDERED AS NECESSARILY COMPLETE, NOR SHALL THE STANDARD DETAILS WHICH MAY BE INCLUDED ELSEWHERE HEREIN BE CONSIDERED AS FORMING A COMPLETE LISTING OF ALL STANDARD DETAILS WHICH MAY APPLY TO THIS PROJECT.
- ALL STANDARD DETAILS ARE INCORPORATED IN THE ABOVE LIST BY REFERENCE AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE M-D WASD STANDARD DETAILS.

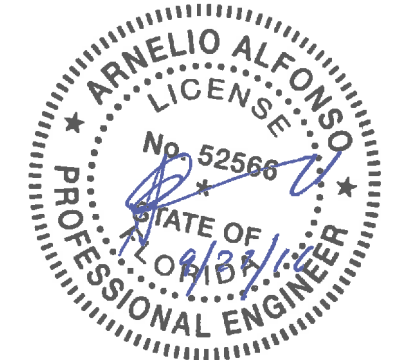
Always call 811 two full business days before you dig

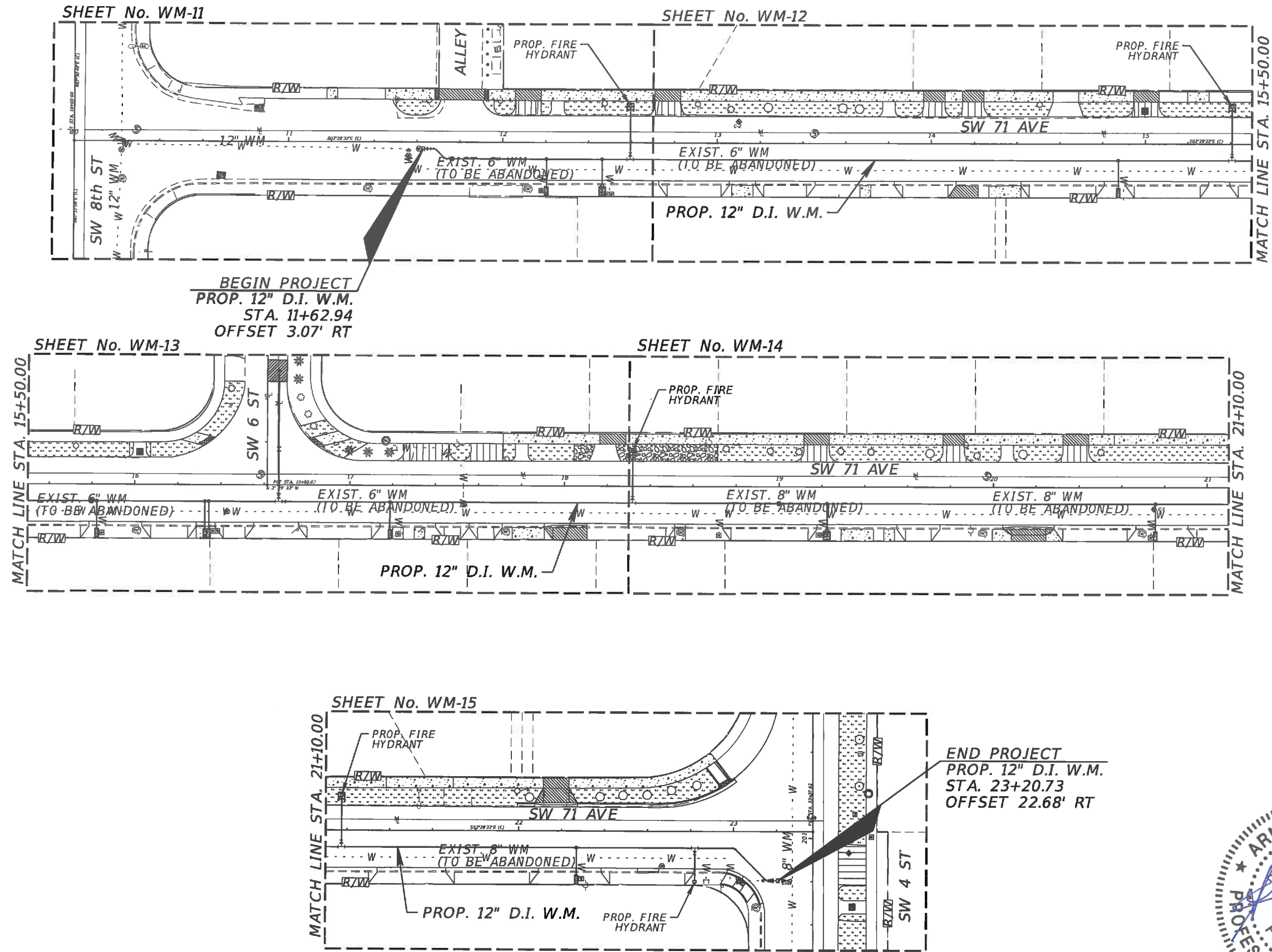
SUNSHINE DESIGN TICKET No. 261407131
DATE: 06/09/2015

LEGEND

--- WM ---	Exist. Water Main
--- SS ---	Exist. Storm Sewer
--- SAN ---	Exist. Sanitary Sewer
--- FM ---	Exist. Force Main
--- G ---	Exist. Gas
--- CL ---	Center line
--- B ---	Base line
--- CL&B ---	Center line and Base line
--- M ---	Monument line
--- S ---	Section line
--- R/W ---	Right of way line
--- P ---	Property line
--- T ---	Exist. Telephone
--- E ---	Exist. Electric underground
--- C ---	Exist. Cable underground
--- L ---	Exist. Traffic loop
REQD.	Required
O/S	Offset
D.I.	Ductile Iron
REST. J	Restrained Joint
W	Exist. Guy Wire
S	Exist. Street Light Pole
U	Exist. Utility Conc. Pole
U	Exist. Utility Pole
F	Exist. Flood Light
T	Exist. Traffic Light Pole
C	Exist. Pedestrian Crossing Light
E	Exist. Electric Box
S	Exist. Street Light Box
T	Exist. Telephone Box
S	Exist. Traffic Signal Box
C	Exist. Cable TV Box
C	Exist. C.B.
S	Exist. Electric MH
S	Exist. Storm MH
S	Exist. Sanitary MH
S	Exist. Telephone MH
S	Exist. Water MH
S	Exist. Well
S	Exist. Sprinkler
S	Exist. Fire Hydrant
S	Exist. Valve
S	Core Boring
S	Exist. Sign
S	Exist. Single Water Meter
S	Prop. Single Water Meter
S	Prop. Dual Water Meter
S	Limits of milling and resurfacing pavement restoration

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		DATE	DESCRIPTION			<p>A&P Consulting Transportation Engineers Corp. 10305 N.W. 41 Street, suite 115 Miami, FL 33178 (305) 592-7283 / fax: (305) 593-1594 CA No. : EB-0007797 Arnello Alfonso, P.E. No. 52566</p>	<p>WATER & SEWER DEPARTMENT 3071 SW 38TH AVENUE MIAMI, FL 33146-1520 305-665-7471 www.miamidade.gov/water</p>	<p>CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>SW 71 AVE</td> <td>MIAMI-DADE</td> <td>B50405</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SW 71 AVE	MIAMI-DADE	B50405	<p>GENERAL NOTES</p>	<p>SHEET NO. WM-02</p>
DATE	DESCRIPTION															
ROAD NO.	COUNTY	FINANCIAL PROJECT ID														
SW 71 AVE	MIAMI-DADE	B50405														





REVISIONS		A&P Consulting Transportation Engineers Corp. 10305 N.W. 41 Street, suite 115 Miami, FL 33178 (305) 592-7283 / fax: (305) 593-1594 CA No. : EB-0007797 Arnelio Alfonso, P.E. No. 52566	WATER & SEWER DEPARTMENT 3071 SW 38TH AVENUE MIAMI, FL 33146-1520 305-665-7471 www.miamidade.gov/water	CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM			PROP. 12" D.I. W.M. GENERAL PLAN	SHEET NO. WM-03
DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SW 71 AVE	MIAMI-DADE	B50405		

SURVEYOR'S REPORT:

DATE OF FIELD SURVEY:

The date of completion of field Survey was on April 15, 2015.

The date of completion of the drawing was on April 27, 2015.

SURVEY LIMITS:

A portion of the following Public Right-of-Way: S.W. 71 Avenue between S.W. 4 Street and S.W. 8 Street, lying and being in City of Miami, Miami-Dade County, Florida.

ACCURACY:

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Minimum Technical Standards requirement for Suburban Area (Linear: 1 foot in 7,500 feet) as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of One inch equals Twenty feet or smaller.

PERTINENT INFORMATION USED FOR SURVEY:

This project area appears to be located in a Flood Zone "X", as per Federal Emergency Management Agency (FEMA) Community Panel Number 120650 (City of Miami), Map No. 12086C0293, Suffix L, Map Revised Date: September 11, 2009.

For Vertical Control:

All elevations shown hereon are based on the on the City of Miami Vertical Datum, and a Benchmark supplied by the Public Works Department of Miami-Dade County, Florida.

Benchmark: A 627 Elevation: 10.51' +0.26=10.77' (C.O.M.)
Located at S.W. corner of the intersection of S.W. 8th Street and Florida East Coast Railroad track.

For Horizontal Control:

Bearing and coordinates are relative to the Florida State Plane Coordinate System, Florida East Zone (0901), North American Datum (N.A.D.) of 1983 adjustment of 2011 (NAD83/2011)-Epoch 2010.0000 with a bearing of S02°29'32" E being established for the Monument Line of S. W. 71 Avenue.

Global Positioning System (G.P.S.), measurements were conducted in the field to acquire said coordinate values which are based on the following Horizontal Control Station:

The following Horizontal Data was obtained from the Florida Permanent Network Web Site (a Florida Reference Station Service Provider, www.myfloridagps.com).

Florida Permanent Network Control Stations:

Name: MIAMI 6 (MIAM)	Name: MIAMI 3 (RICHMOND)
Code: MIAM	Code: RMND
Geographic Coordinates:	Geographic Coordinates:
Latitude: 25°43'57.85257" N	Latitude: 25°46'49.58977" N
Longitude: 80°09'47.5065" W	Longitude: 80°23'02.14116" W
State Plane Coordinates:	State Plane Coordinates:
Northing: 509,427.49 US Feet	Northing: 465,790.41 US Feet
Easting: 931,640.11 US Feet	Easting: 859,175.16 US Feet
Creation Date: 08-02-2010	Creation Date: 08-02-2010
Receiver Type: TRIMBLE NETRS	Receiver Type: LEICA GRX1200PRO
Satellite System: GPS Only	Satellite System: GPS Only
Coverage Radius: 30 km	Coverage Radius: 30 km

All measurements are in U. S. Survey Feet.

Plat of "FLAGAMI 1st ADDITION" recorded in Plat Book 17 at Page 66 of the Public Records of Miami-Dade County, Florida.

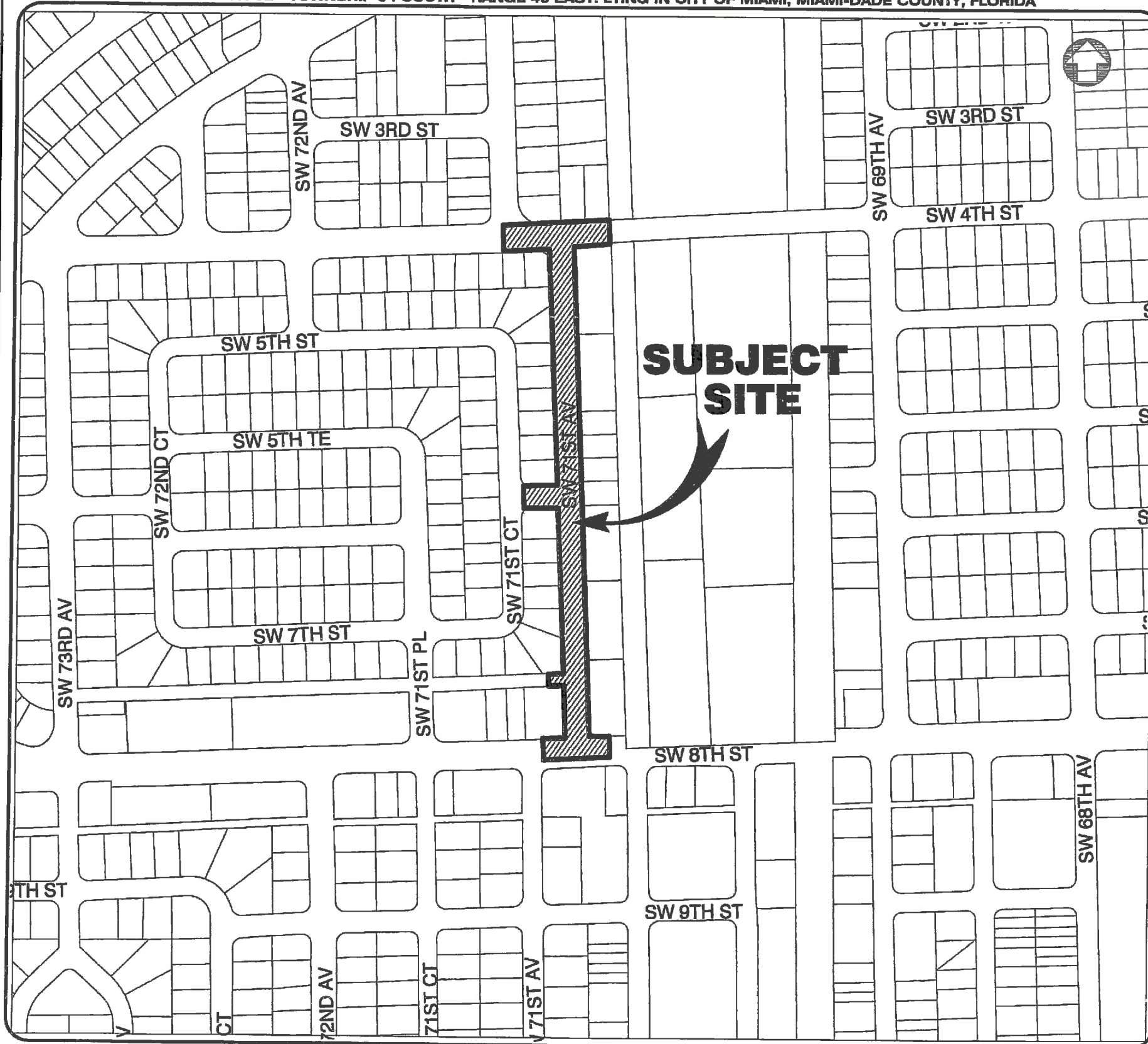
Plat of "WAREHOUSES OF MIAMI, INC" recorded in Plat Book 61 at Page 96 of the Public Records of Miami-Dade County, Florida.

Plat of "INDUSTRIES OF MIAMI, INC" recorded in Plat Book 62 at Page 97 of the Public Records of Miami-Dade County, Florida.

Plat of "ARACE SUBDIVISION" recorded in Plat Book 63 at Page 6 of the Public Records of Miami-Dade County, Florida.

MAP OF TOPOGRAPHIC SURVEY

SECTION 02 - TOWNSHIP 54 SOUTH - RANGE 40 EAST. LYING IN CITY OF MIAMI, MIAMI-DADE COUNTY, FLORIDA



LOCATION MAP
(1"=300')

NOTICE:
This Document is not full and complete without all pages. (Total of Seven (7) pages)

Plat of "REIS SUBDIVISION" recorded in Plat Book 73 at Page 50 of the Public Records of Miami-Dade County, Florida.

Plat of "SIEBROS" recorded in Plat Book 73 at Page 53 of the Public Records of Miami-Dade County, Florida.

Plat of "E. & J. SUBDIVISION" recorded in Plat Book 85 at Page 92 of the Public Records of Miami-Dade County, Florida.

Plat of "JAMES JOANNOU PLAT" recorded in Plat Book 89 at Page 4 of the Public Records of Miami-Dade County, Florida.

Plat of "TAMIAMI GARDENS" recorded in Plat Book 48 at Page 19 of the Public Records of Miami-Dade County, Florida.

Plat of "SCHILLER ESTATE" recorded in Plat Book 82 at Page 82 of the Public Records of Miami-Dade County, Florida.

City of Miami Atlas Sheet's "29G", recorded in the Survey Department of the City of Miami, Florida.

RESTRICTIONS:

Since no other information were furnished other than that is cited under pertinent information, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Works Department of Miami-Dade County, Florida.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual who may appear of Public Records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

PURPOSE OF SURVEY:

The purpose of this survey is for design.

CLIENT INFORMATION:

This Topographic Survey was prepared at the insistence of and certified to:

- A & P CONSULTING & TRANSPORTATION ENGINEERS

LONGITUDE SURVEYORS

7715 NW 48TH STREET, SUITE 310
DORAL, FLORIDA 33166
PHONE: (305)463-0912 FAX: (305)513-5680
WWW.LONGITUDESURVEYORS.COM

SURVEYOR'S CERTIFICATE:

I hereby certify: That this "Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Topographic Survey" meets the intent of the applicable provisions of the "Minimum Technical Standards for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through 5J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

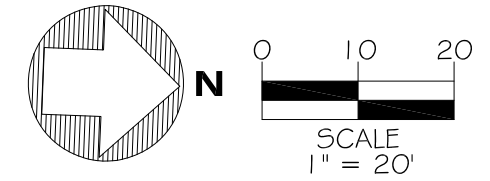
LONGITUDE SURVEYORS LLC, a Florida Limited Liability Company, Florida Certificate of Authorization Number LB7335

By: *Eduardo M. Suarez* 7/27/16
Eduardo M. Suarez, PSM Signature Date
Registered Surveyor and Mapper: LS6310
State of Florida

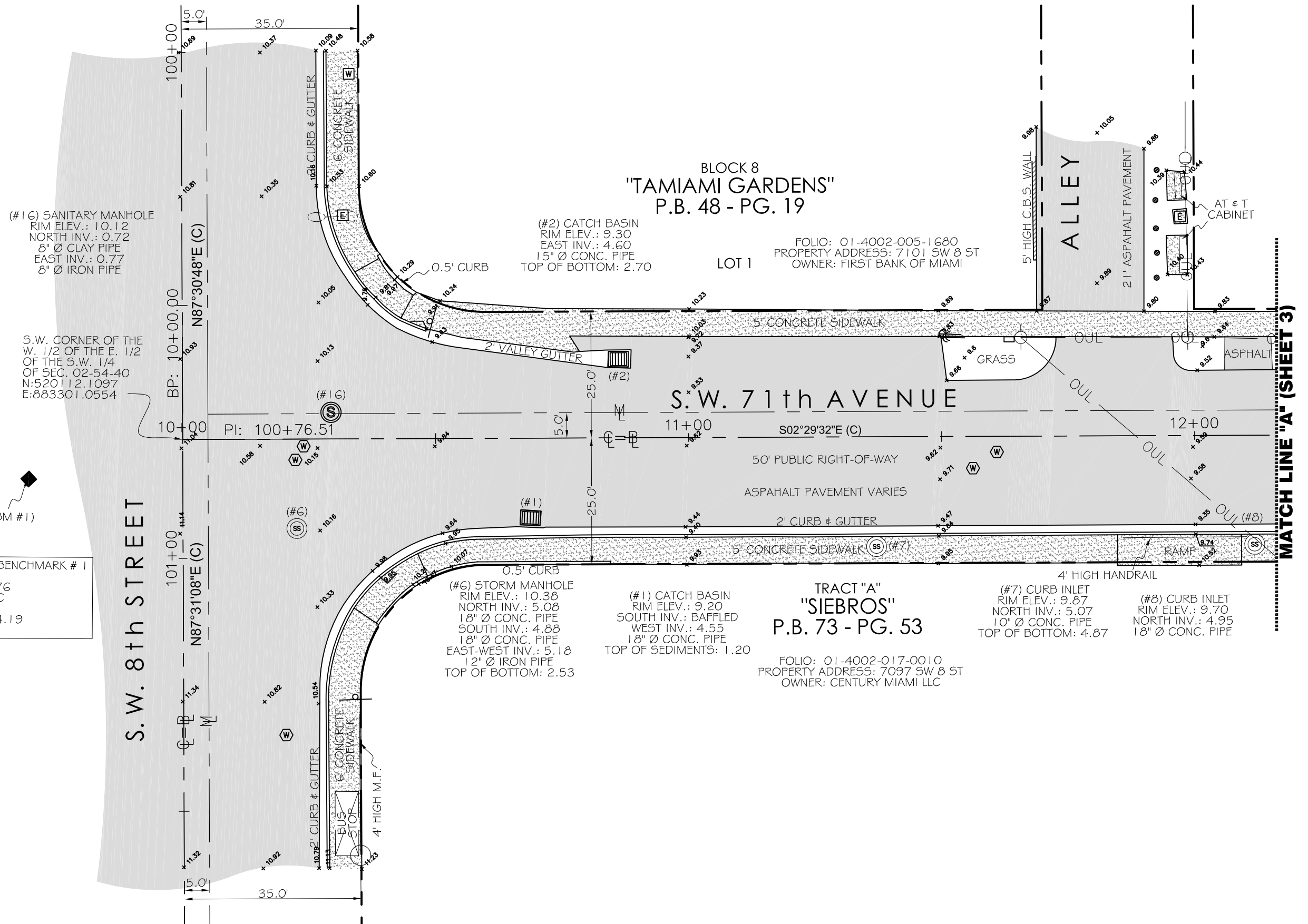
NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

JOB NO.: 15238 DRAWN BY: JL
FIELD BOOK: EFB SHEET 1 OF 7

MAP OF TOPOGRAPHIC SURVEY



- LEGEND**
- CONC. = CONCRETE
 - R = RECORDED VALUE
 - M = MEASURED VALUE
 - (C) = CALCULATED
 - C.B.S. = CONCRETE BLOCK STUCCO
 - CL = CENTERLINE
 - P.B. = PLAT BOOK
 - P.G. = PAGE
 - M.F. = METAL FENCE
 - W.P.P. = WOOD POWER POLE
 - G.A. = GUY ANCHOR
 - C.P.P. = CONCRETE POWER POLE
 - OP = ORNAMENTAL PLANT
 - B = BOLLARD
 - S = SIGN
 - PT = PALM TREE
 - T = TREE
 - CLF = CHAIN LINK FENCE
 - WF = WOOD FENCE
 - MF = METAL FENCE
 - C = COLUMN
 - GV = GAS VALVE
 - CB = CATCH BASIN
 - OLP = ORNAMENTAL LIGHT POLE
 - LP = LIGHT POLE
 - R = RADIUS
 - ID = IDENTIFICATION
 - LP = LIGHT POLE
 - ML = MONUMENT LINE
 - OW = OVERHEAD WIRE
 - WV = WATER VALVE
 - WM = WATER METER
 - FH = FIRE HYDRANT
 - T.S.B. = TEMPORARY SITE BENCHMARK
 - H/LA = HEDGE OR LANDSCAPED AREA
 - CO = CLEAN OUT
 - SS = SANITARY SEWER MANHOLE
 - SD = STORM DRAINAGE MANHOLE
 - UM = UNKNOWN MANHOLE
 - FPL = FPL MANHOLE
 - CLF = CHAIN LINK FENCE
 - M.F. = METAL FENCE
 - W.F. = WOOD FENCE
 - MB = MAILBOX
 - MA = SIGNAL MAST ARM
 - BR = BRICK
 - CONC. = CONCRETE
 - PAV = PAVER
 - TILE = TILE
 - SC = STAMPED CONCRETE
 - ASP = ASPHALT
 - L = LENGTH
 - Δ = ANGLE OF THE CURVE
 - E = ELECTRIC BOX
 - BP = BEGIN POINT
 - EP = END POINT
 - IP = INTERSECTION POINT

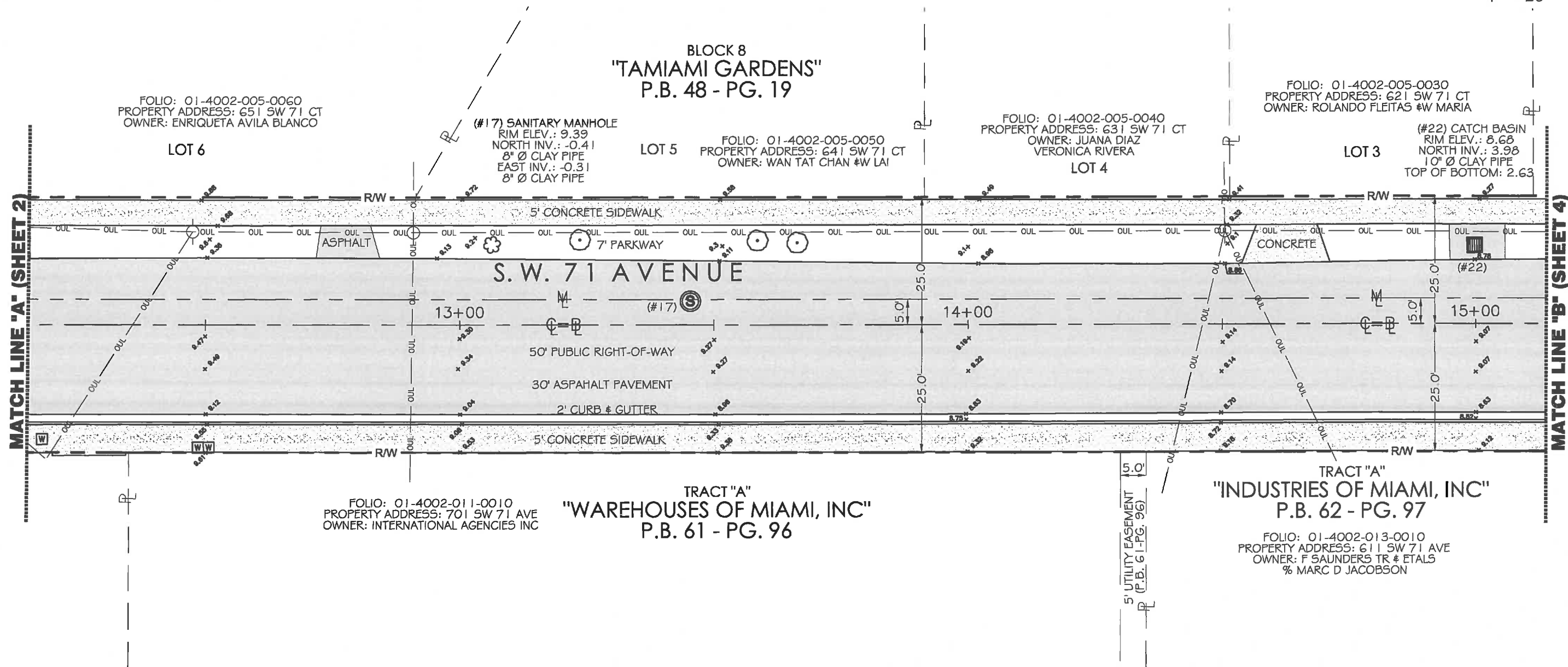
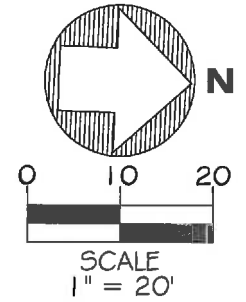


SITE TEMPORARY BENCHMARK # 1
(TBM #1)
ELEVATION = 10.76
SET PK NAIL & DISC
(L.B. 7335)
STATION: 100+84.19
OFFSET: 30.45' R

LONGITUDE
SURVEYORS
8290 N.W. 64TH STREET
MIAMI, FLORIDA 33166
PHONE: (305)463-0912 FAX: (305)513-5680
WWW.LONGITUDESURVEYORS.COM

JOB NO.: 15238 DRAWN BY: JL
FIELD BOOK: EFB SHEET 2 OF 7

MAP OF TOPOGRAPHIC SURVEY



LONGITUDE
 SURVEYORS

8290 N.W. 64TH STREET
 MIAMI, FLORIDA 33166
 PHONE: (305) 463-0912 FAX: (305) 513-5680
 WWW.LONGITUDESURVEYORS.COM

JOB NO.: 15238
 FIELD BOOK: EFB

DRAWN BY: JL
 SHEET 3 OF 7

- CONC. = CONCRETE
- R = RECORDED VALUE
- M = MEASURED VALUE
- (C) = CALCULATED
- C.B.S. = CONCRETE BLOCK STUCCO
- = CENTERLINE
- P.B. = PLAT BOOK
- PG. = PAGE
- M.F. = METAL FENCE
- = WOOD POWER POLE
- = GUY ANCHOR
- = CONCRETE POWER POLE
- = ORNAMENTAL PLANT

- = BOLLARD
- = SIGN
- = PALM TREE
- = TREE
- = CHAIN LINK FENCE
- = WOOD FENCE
- = METAL FENCE
- = COLUMN
- = GAS VALVE
- = CATCH BASIN

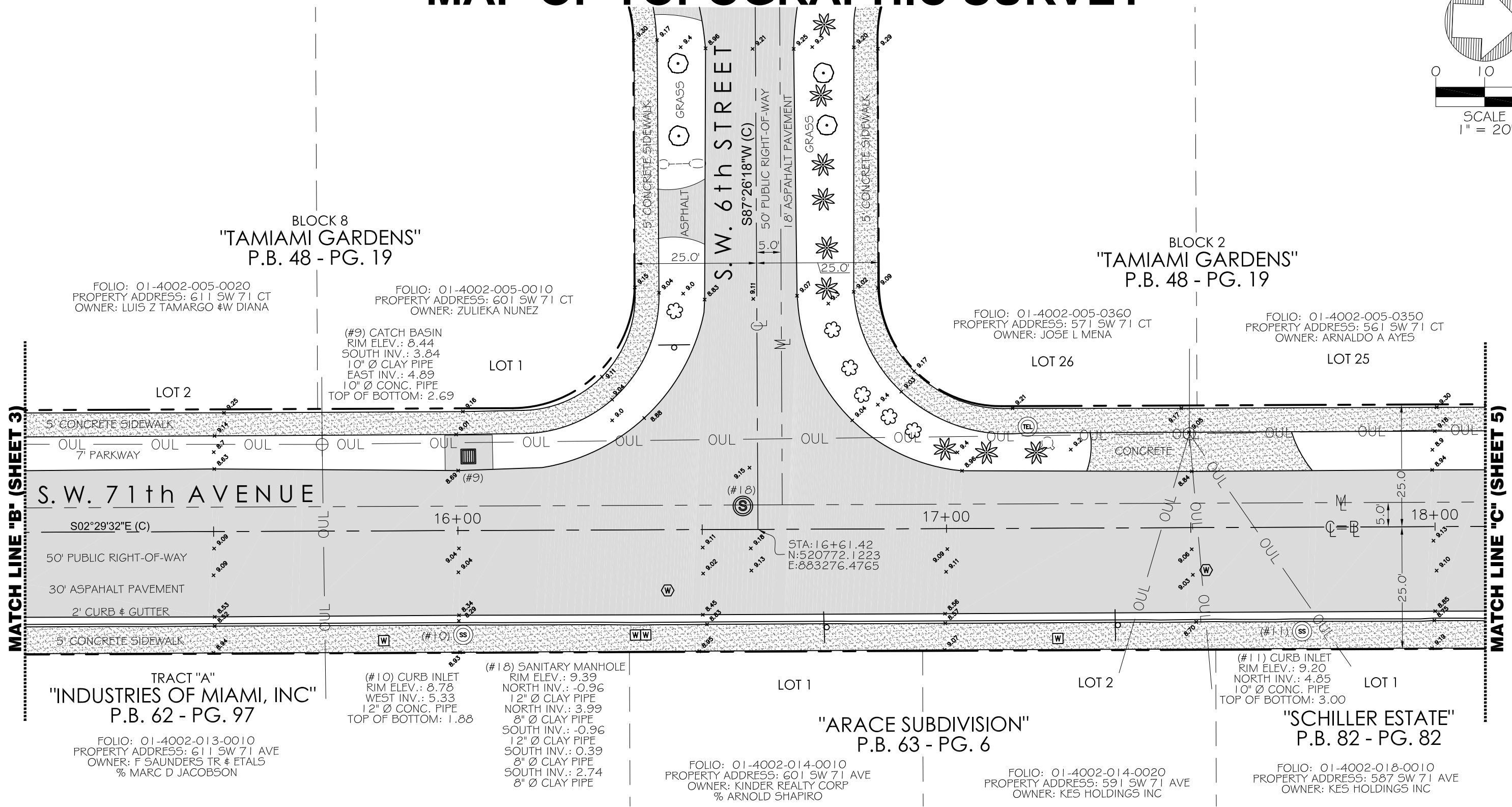
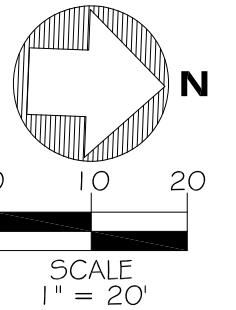
- LEGEND**
- = ORNAMENTAL LIGHT POLE
 - = LIGHT POLE
 - R = RADIUS
 - ID. = IDENTIFICATION
 - LP = LIGHT POLE
 - M = MONUMENT LINE
 - = OVERHEAD WIRE
 - = WATER VALVE
 - = WATER METER
 - = FIRE HYDRANT
 - = TEMPORARY SITE BENCHMARK
 - = HEDGE OR LANDSCAPED AREA

- = CLEAN OUT
- = SANITARY SEWER MANHOLE
- = STORM DRAINAGE MANHOLE
- = UNKNOWN MANHOLE
- = FPL MANHOLE
- C.L.F. = CHAIN LINK FENCE
- M.F. = METAL FENCE
- W.F. = WOOD FENCE
- = MAILBOX
- = SIGNAL MAST ARM

- = BRICK
- = CONCRETE
- = PAVER
- = TILE
- = STAMPED CONCRETE
- = ASPHALT
- L = LENGTH
- Δ = ANGLE OF THE CURVE
- = ELECTRIC BOX

- BP = BEGIN POINT
- EP = END POINT
- IP = INTERSECTION POINT

MAP OF TOPOGRAPHIC SURVEY



BLOCK 8
"TAMIAMI GARDENS"
P.B. 48 - PG. 19

FOLIO: 01-4002-005-0020
PROPERTY ADDRESS: 611 SW 71 CT
OWNER: LUIS Z TAMARGO #W DIANA

FOLIO: 01-4002-005-0010
PROPERTY ADDRESS: 601 SW 71 CT
OWNER: ZULIEKA NUNEZ

(#9) CATCH BASIN
RIM ELEV.: 8.44
SOUTH INV.: 3.84
10" Ø CLAY PIPE
EAST INV.: 4.89
10" Ø CONC. PIPE
TOP OF BOTTOM: 2.69

BLOCK 2
"TAMIAMI GARDENS"
P.B. 48 - PG. 19

FOLIO: 01-4002-005-0360
PROPERTY ADDRESS: 571 SW 71 CT
OWNER: JOSÉ L MENA

FOLIO: 01-4002-005-0350
PROPERTY ADDRESS: 561 SW 71 CT
OWNER: ARNALDO A AYES

S.W. 71th AVENUE

S02°29'32"E (C)

50' PUBLIC RIGHT-OF-WAY

30' ASPHALT PAVEMENT

2' CURB & GUTTER

5' CONCRETE SIDEWALK

TRACT "A"
"INDUSTRIES OF MIAMI, INC"
P.B. 62 - PG. 97

FOLIO: 01-4002-013-0010
PROPERTY ADDRESS: 611 SW 71 AVE
OWNER: F SAUNDERS TR & ETALS
% MARC D JACOBSON

(#10) CURB INLET
RIM ELEV.: 8.78
WEST INV.: 5.33
12" Ø CONC. PIPE
TOP OF BOTTOM: 1.88

(#18) SANITARY MANHOLE
RIM ELEV.: 9.39
NORTH INV.: -0.96
12" Ø CLAY PIPE
NORTH INV.: 3.99
8" Ø CLAY PIPE
SOUTH INV.: -0.96
12" Ø CLAY PIPE
SOUTH INV.: 0.39
8" Ø CLAY PIPE
SOUTH INV.: 2.74
8" Ø CLAY PIPE

"ARACE SUBDIVISION"
P.B. 63 - PG. 6

FOLIO: 01-4002-014-0010
PROPERTY ADDRESS: 601 SW 71 AVE
OWNER: KINDER REALTY CORP
% ARNOLD SHAPIRO

LOT 2

FOLIO: 01-4002-014-0020
PROPERTY ADDRESS: 591 SW 71 AVE
OWNER: KES HOLDINGS INC

"SCHILLER ESTATE"
P.B. 82 - PG. 82

FOLIO: 01-4002-018-0010
PROPERTY ADDRESS: 587 SW 71 AVE
OWNER: KES HOLDINGS INC

LONGITUDE
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MIAMI, FLORIDA 33166
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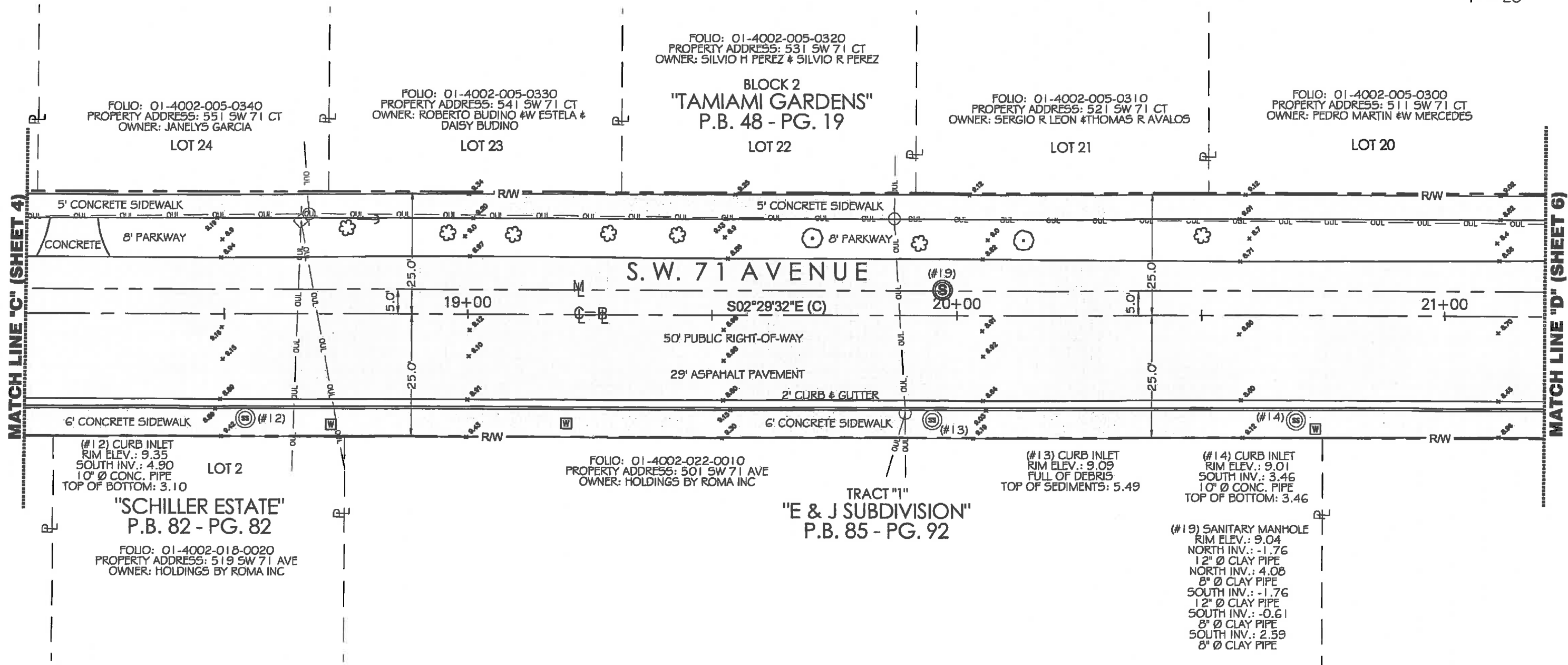
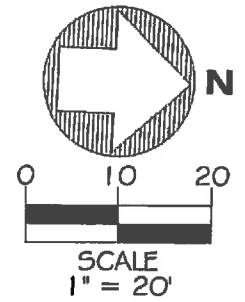
JOB NO.: 15238
FIELD BOOK: EFB

DRAWN BY: JL
SHEET 4 OF 7

LEGEND

CONC. = CONCRETE	= BOLLARD	= ORNAMENTAL LIGHT POLE	= CLEAN OUT	= BRICK	BP = BEGIN POINT
R = RECORDED VALUE	= SIGN	= LIGHT POLE	= SANITARY SEWER MANHOLE	= CONCRETE	EP = END POINT
M = MEASURED VALUE	= PALM TREE	= RADIUS	= STORM DRAINAGE MANHOLE	= PAVER	IP = INTERSECTION POINT
(C) = CALCULATED	= TREE	= IDENTIFICATION	= UNKNOWN MANHOLE	= TILE	
C.B.S. = CONCRETE BLOCK STUCCO	= CHAIN LINK FENCE	= LIGHT POLE	= FPL MANHOLE	= STAMPED CONCRETE	
(CL) = CENTERLINE	= WOOD FENCE	= MONUMENT LINE	= METAL FENCE	= ASPHALT	
P.B. = PLAT BOOK	= METAL FENCE	= OVERHEAD WIRE	= WOOD FENCE	= LENGTH	
PG. = PAGE	= GUY ANCHOR	= WATER VALVE	= MAILBOX	= ANGLE OF THE CURVE	
M.F. = METAL FENCE	= GAS VALVE	= WATER METER	= SIGNAL MAST ARM	= ELECTRIC BOX	
= WOOD POWER POLE	= CATCH BASIN	= FIRE HYDRANT			
= CONCRETE POWER POLE		= TEMPORARY SITE BENCHMARK			
= ORNAMENTAL PLANT		= HEDGE OR LANDSCAPED AREA			

MAP OF TOPOGRAPHIC SURVEY

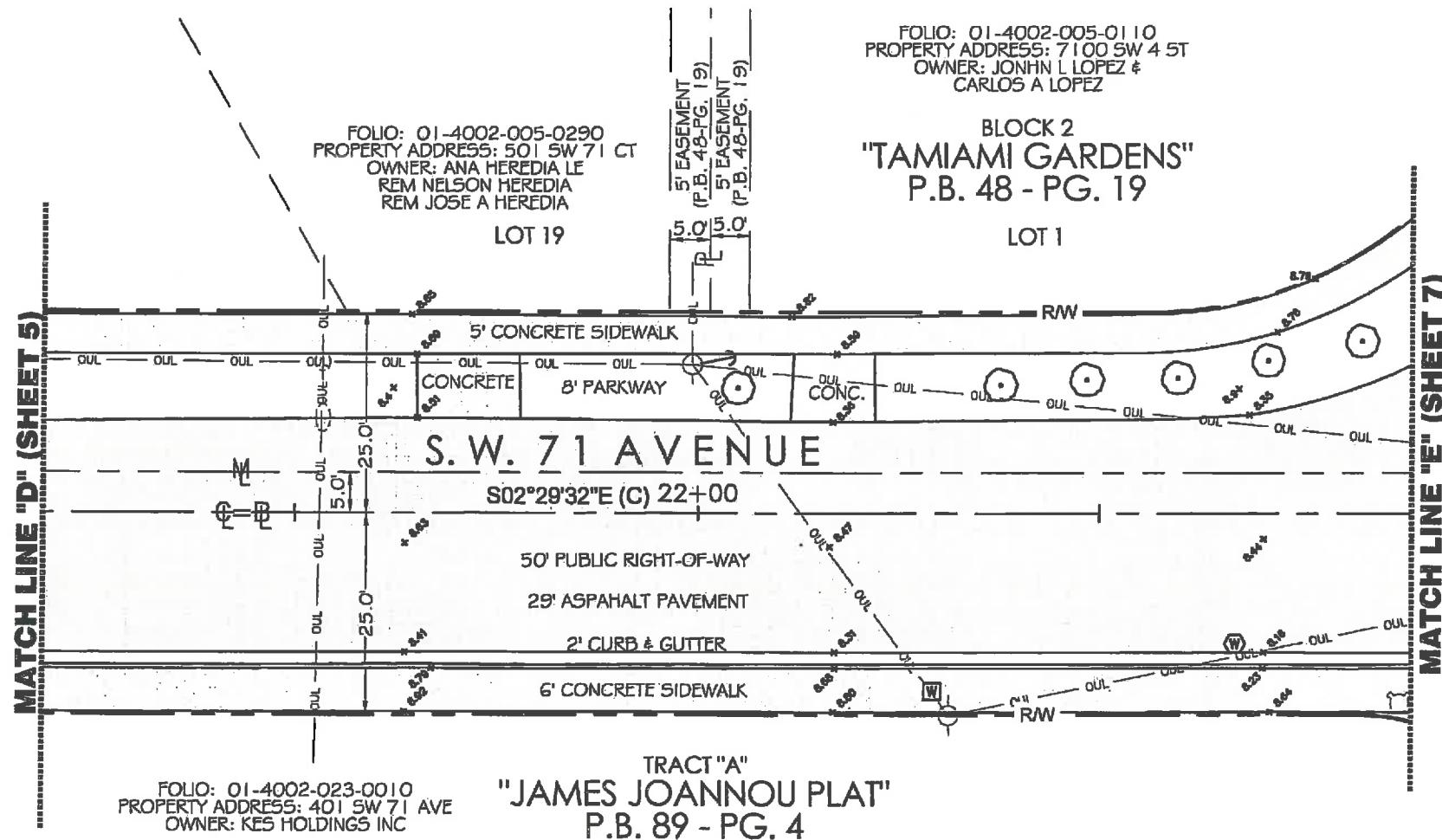
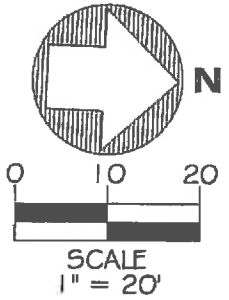


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 8290 N.W. 64TH STREET
 MIAMI, FLORIDA 33166
 PHONE:(305)463-0912 FAX:(305)513-5680
 WWW.LONGITUDESURVEYORS.COM

JOB NO.: 15238 DRAWN BY: JL
 FIELD BOOK: EPB SHEET 5 OF 7

LEGEND			
CONC.	= CONCRETE	⊙	= BOLLARD
R	= RECORDED VALUE	⊙	= SIGN
M	= MEASURED VALUE	☼	= PALM TREE
(C)	= CALCULATED	⊙	= TREE
C.B.S.	= CONCRETE BLOCK STUCCO	—	= CHAIN LINK FENCE
	= CENTERLINE	—	= WOOD FENCE
P.B.	= PLAT BOOK	—	= METAL FENCE
P.G.	= PAGE	—	= COLUMN
M.F.	= METAL FENCE	—	= GAS VALVE
⊙	= WOOD POWER POLE	—	= CATCH BASIN
⊙	= GUY ANCHOR	⊙	= ORNAMENTAL LIGHT POLE
⊙	= CONCRETE POWER POLE	⊙	= LIGHT POLE
⊙	= ORNAMENTAL PLANT	⊙	= RADIUS
		⊙	= IDENTIFICATION
		⊙	= LIGHT POLE
		⊙	= MONUMENT LINE
		⊙	= OVERHEAD WIRE
		⊙	= WATER VALVE
		⊙	= WATER METER
		⊙	= FIRE HYDRANT
		⊙	= TEMPORARY SITE BENCHMARK
		⊙	= HEDGE OR LANDSCAPED AREA
		⊙	= CLEAN OUT
		⊙	= SANITARY SEWER MANHOLE
		⊙	= STORM DRAINAGE MANHOLE
		⊙	= UNKNOWN MANHOLE
		⊙	= FPL MANHOLE
		⊙	= CHAIN LINK FENCE
		⊙	= METAL FENCE
		⊙	= WOOD FENCE
		⊙	= MAILBOX
		⊙	= SIGNAL MAST ARM
		⊙	= BRICK
		⊙	= CONCRETE
		⊙	= PAVER
		⊙	= TILE
		⊙	= STAMPED CONCRETE
		⊙	= ASPHALT
		⊙	= LENGTH
		⊙	= ANGLE OF THE CURVE
		⊙	= ELECTRIC BOX
		⊙	= BEGIN POINT
		⊙	= END POINT
		⊙	= INTERSECTION POINT

MAP OF TOPOGRAPHIC SURVEY



LONGITUDE
SURVEYORS

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JOB NO.: 15238
FIELD BOOK: EFB

DRAWN BY: JL
SHEET 6 OF 7

- CONC. = CONCRETE
- R = RECORDED VALUE
- M = MEASURED VALUE
- (C) = CALCULATED
- C.B.S. = CONCRETE BLOCK STUCCO
- C.L. = CENTERLINE
- P.B. = PLAT BOOK
- PG. = PAGE
- M.F. = METAL FENCE
- W.P.P. = WOOD POWER POLE
- G.A. = GUY ANCHOR
- C.P.P. = CONCRETE POWER POLE
- O.P. = ORNAMENTAL PLANT

- = BOLLARD
- = SIGN
- ☼ = PALM TREE
- = TREE
- = CHAIN LINK FENCE
- = WOOD FENCE
- = METAL FENCE
- = COLUMN
- = GAS VALVE
- = CATCH BASIN

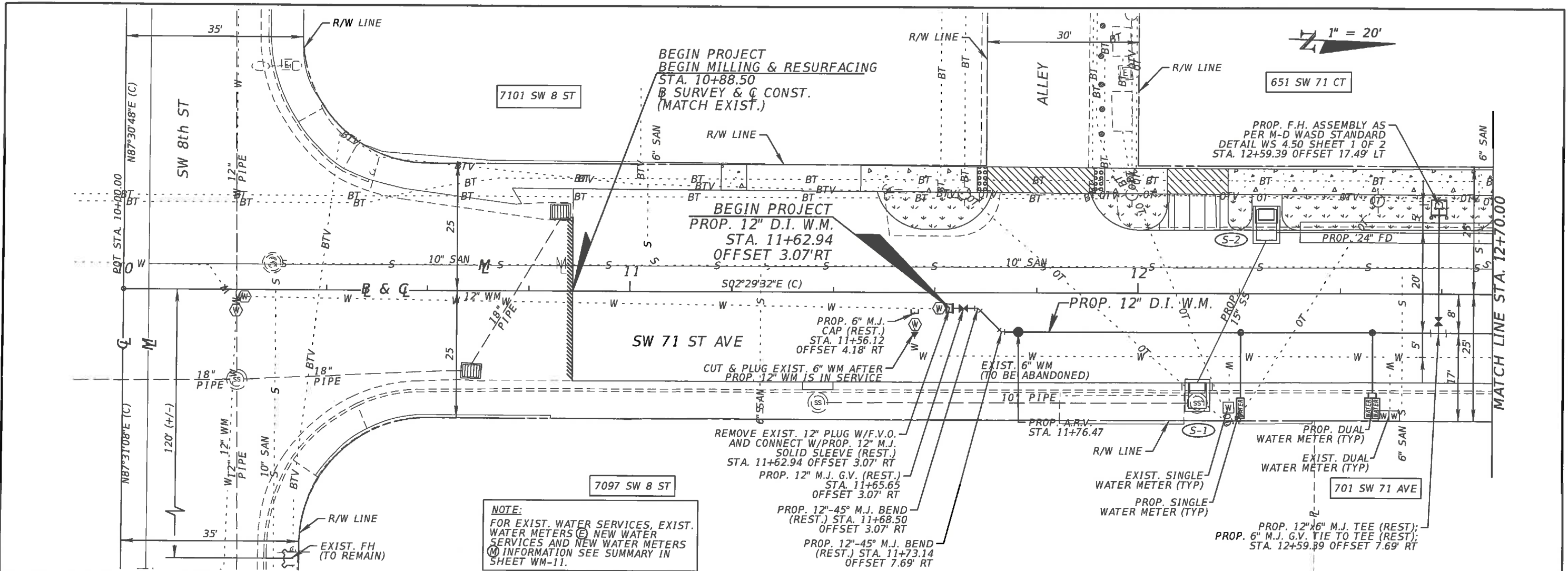
LEGEND

- ☼ = ORNAMENTAL LIGHT POLE
- ☼ = LIGHT POLE
- R = RADIUS
- I.D. = IDENTIFICATION
- L.P. = LIGHT POLE
- M.L. = MONUMENT LINE
- = OVERHEAD WIRE
- = WATER VALVE
- = WATER METER
- = FIRE HYDRANT
- = TEMPORARY SITE BENCHMARK
- = HEDGE OR LANDSCAPED AREA

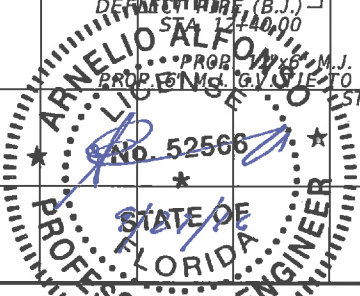
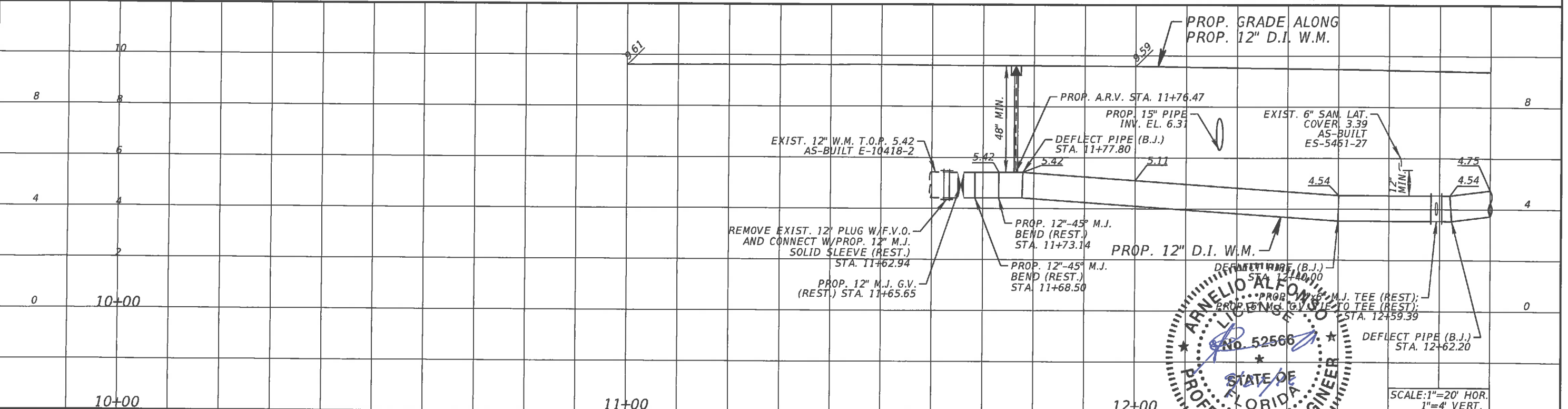
- ⊙ = CLEAN OUT
- ⊙ = SANITARY SEWER MANHOLE
- ⊙ = STORM DRAINAGE MANHOLE
- ⊙ = UNKNOWN MANHOLE
- ⊙ = FPL MANHOLE
- C.L.F. = CHAIN LINK FENCE
- M.F. = METAL FENCE
- W.F. = WOOD FENCE
- = MAILBOX
- = SIGNAL MAST ARM

- = BRICK
- = CONCRETE
- = PAVER
- = TILE
- = STAMPED CONCRETE
- = ASPHALT
- L = LENGTH
- Δ = ANGLE OF THE CURVE
- ⊞ = ELECTRIC BOX

- BP = BEGIN POINT
- EP = END POINT
- IP = INTERSECTION POINT



NOTE:
 FOR EXIST. WATER SERVICES, EXIST. WATER METERS (⊕) NEW WATER SERVICES AND NEW WATER METERS (⊙) INFORMATION SEE SUMMARY IN SHEET WM-11.



REVISIONS	
DATE	DESCRIPTION

A&P Consulting Transportation Engineers Corp.
 10305 N.W. 41 Street, suite 115
 Miami, FL 33178
 (305) 592-7283 / fax: (305) 593-1594
 CA No. : EB-0007797
 Arnelio Alfonso, P.E. No. 52566

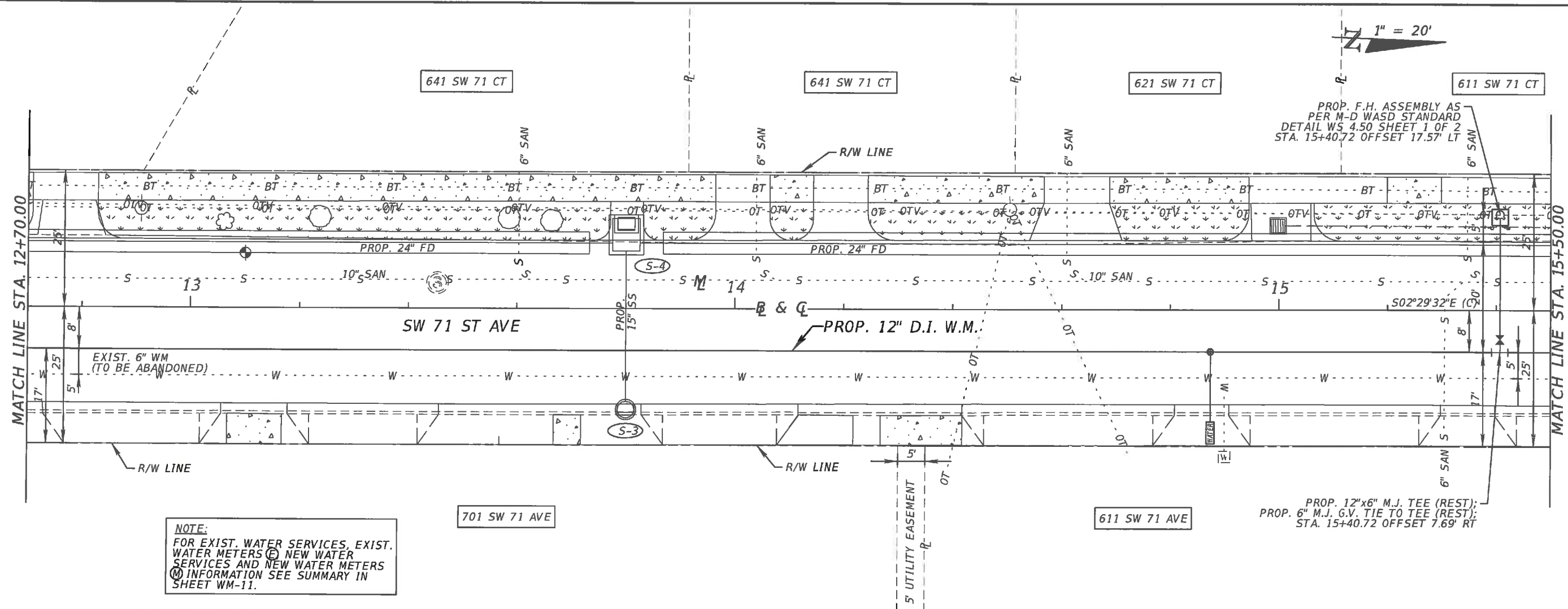
WATER & SEWER DEPARTMENT
 3071 SW 38TH AVENUE
 MIAMI, FL 33146-1520
 305-665-7471
 www.miamidade.gov/water

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SW 71 AVE	MIAMI-DADE	B50405

**PROP. 12\"/>
 PLAN & PROFILE**

SHEET NO.
 WM-11

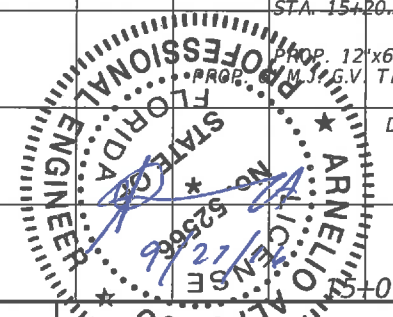
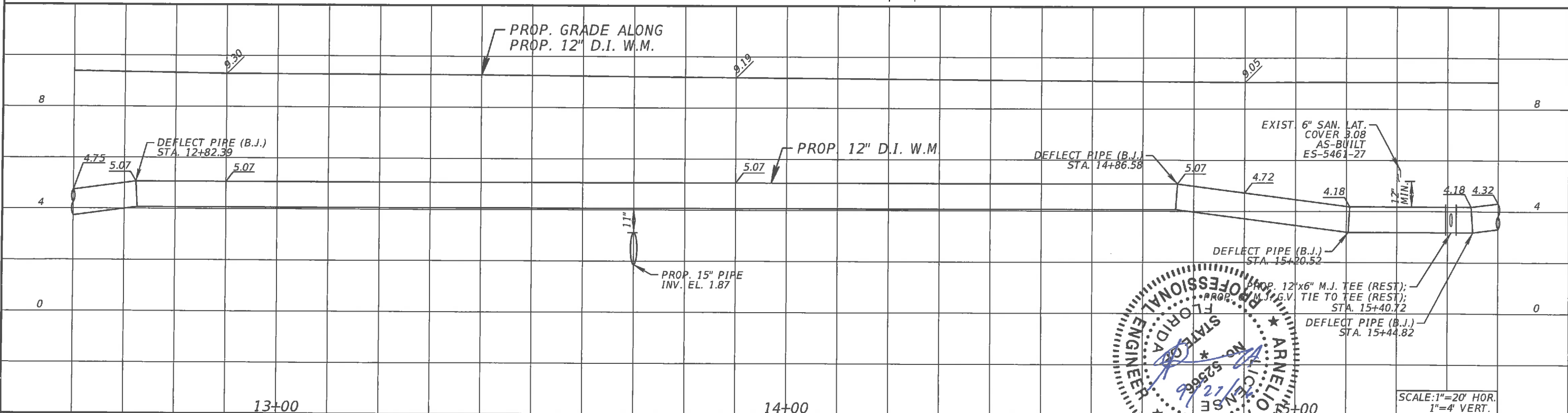
1" = 20'



NOTE:
 FOR EXIST. WATER SERVICES, EXIST. WATER METERS (E) NEW WATER SERVICES AND NEW WATER METERS (M) INFORMATION SEE SUMMARY IN SHEET WM-11.

PROP. F.H. ASSEMBLY AS PER M-D WASD STANDARD
 DETAIL WS 4.50 SHEET 1 OF 2
 STA. 15+40.72 OFFSET 17.57' LT

PROP. 12"x6" M.J. TEE (REST);
 PROP. 6" M.J. G.V. TIE TO TEE (REST);
 STA. 15+40.72 OFFSET 7.69' RT



SCALE: 1"=20' HOR.
 1"=4' VERT.

DATE	REVISIONS DESCRIPTION

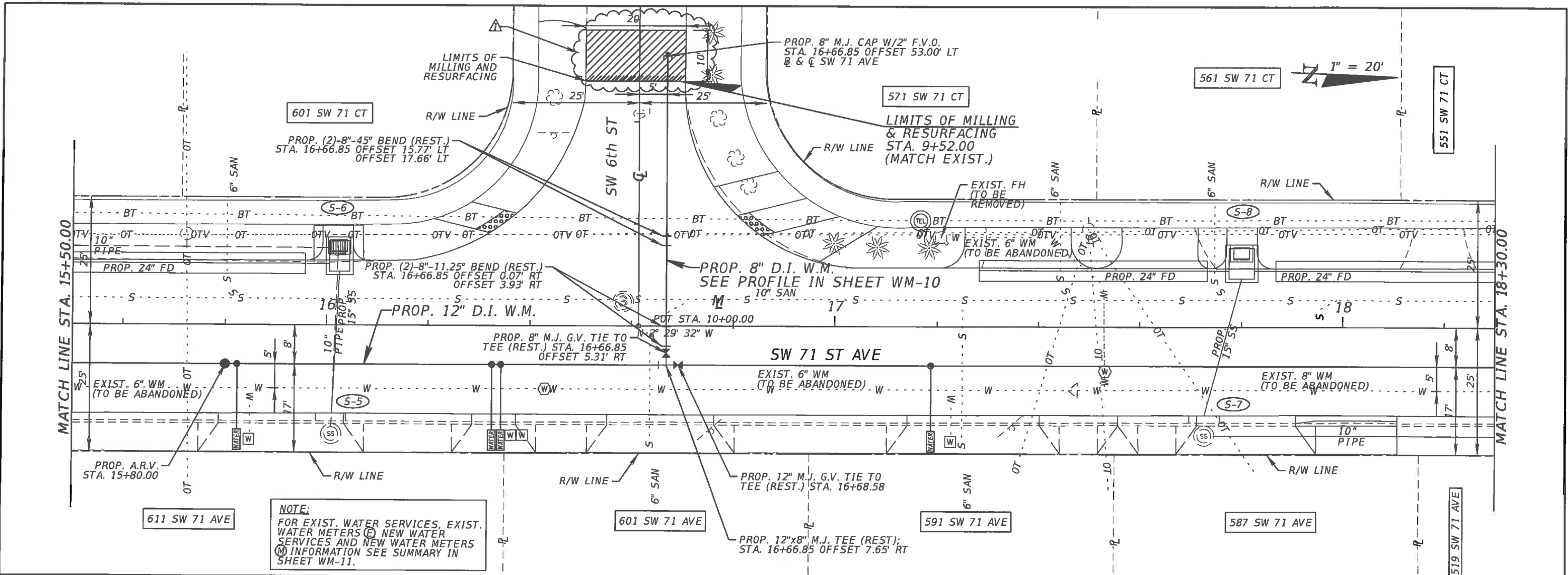
A&P Consulting Transportation Engineers Corp.
 10305 N.W. 41 Street, suite 115
 Miami, FL 33178
 (305) 592-7283 / fax: (305) 593-1594
 CA No. : EB-0007797
 Arnello Alfonso, P.E. No. 52566

WATER & SEWER DEPARTMENT
 3071 SW 38TH AVENUE
 MIAMI, FL 33146-1520
 305-665-7471
 www.miamidade.gov/water

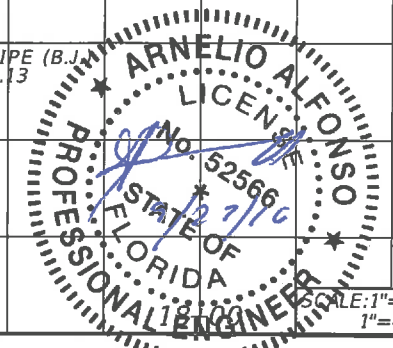
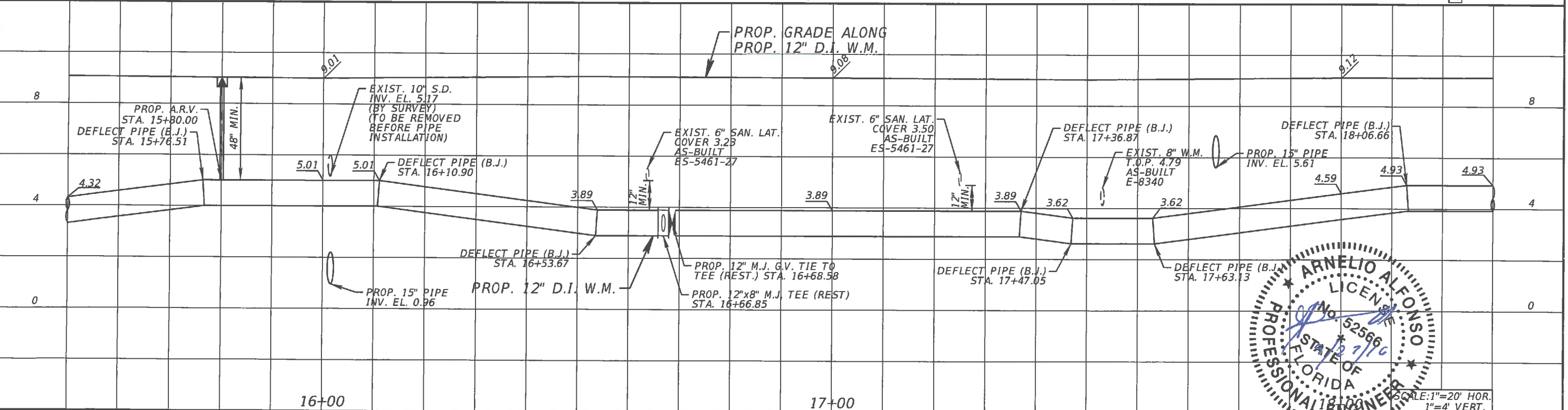
CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SW 71 AVE	MIAMI-DADE	B50405

**PROP. 12" D.I. W.M.
 PLAN & PROFILE**

SHEET NO.
 WM-12



NOTE:
 FOR EXIST. WATER SERVICES, EXIST. WATER METERS (M), NEW WATER SERVICES AND NEW WATER METERS (N) INFORMATION SEE SUMMARY IN SHEET WM-11.



REVISIONS	
DATE	DESCRIPTION
9/07/16	MILLING AND RESURFACING AREA

A&P Consulting Transportation Engineers Corp.
 10305 N.W. 41 Street, suite 115
 Miami, FL 33178
 (305) 592-7283 / fax: (305) 593-1594
 CA No. : EB-0007797
 Arnelio Alfonso, P.E. No. 52566

WATER & SEWER DEPARTMENT
 3071 SW 38TH AVENUE
 MIAMI, FL 33146-1520
 305-665-7471
 www.miamidade.gov/water

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SW 71 AVE	MIAMI-DADE	B50405

**PROP. 12" D.I. W.M.
 PLAN & PROFILE**

SHEET NO.
WM-13

551 SW 71 CT

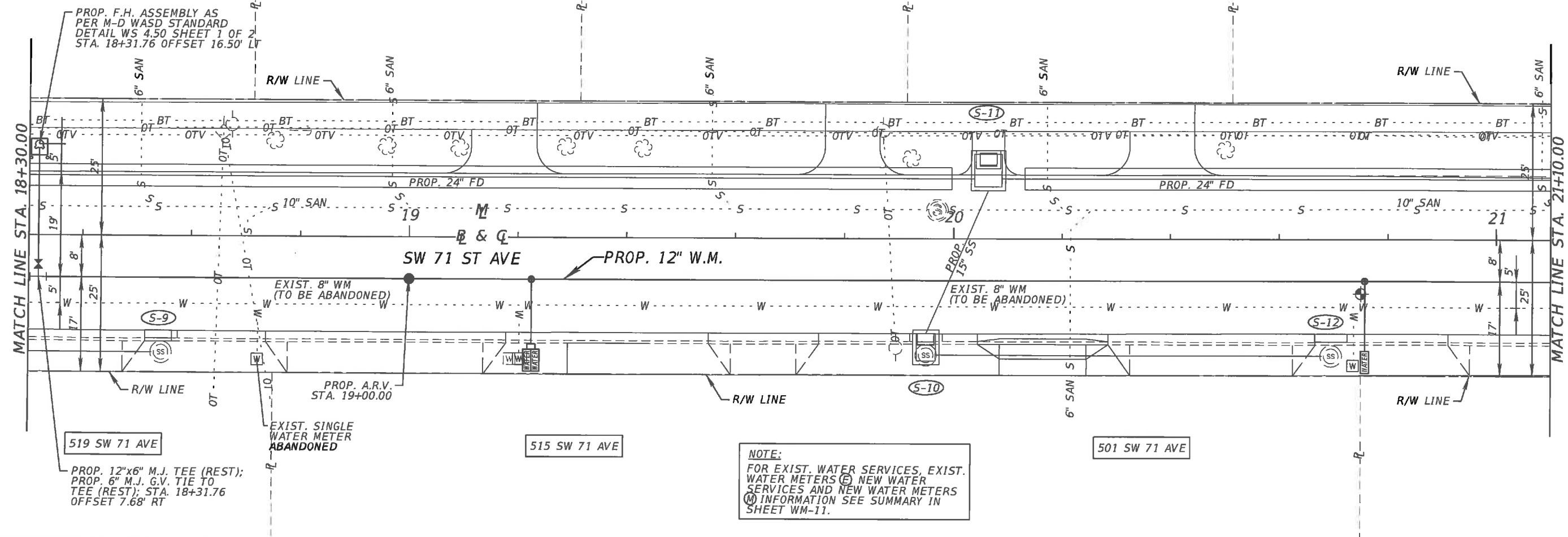
541 SW 71 CT

531 SW 71 CT

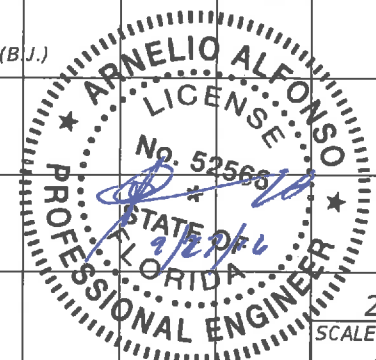
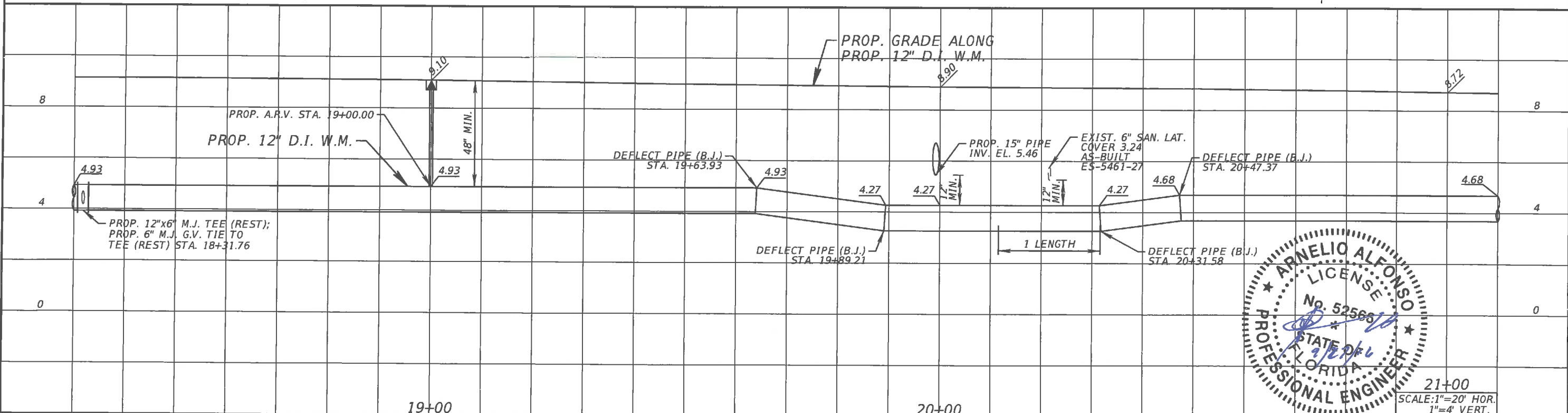
521 SW 71 CT

511 SW 71 CT

1" = 20'



NOTE:
 FOR EXIST. WATER SERVICES, EXIST. WATER METERS (W) NEW WATER SERVICES AND NEW WATER METERS INFORMATION SEE SUMMARY IN SHEET WM-11.



DATE	REVISIONS DESCRIPTION

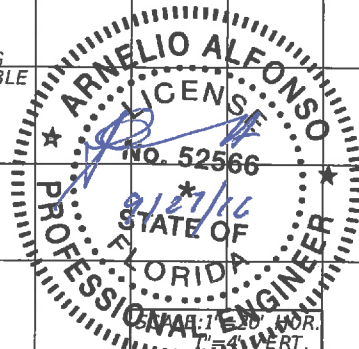
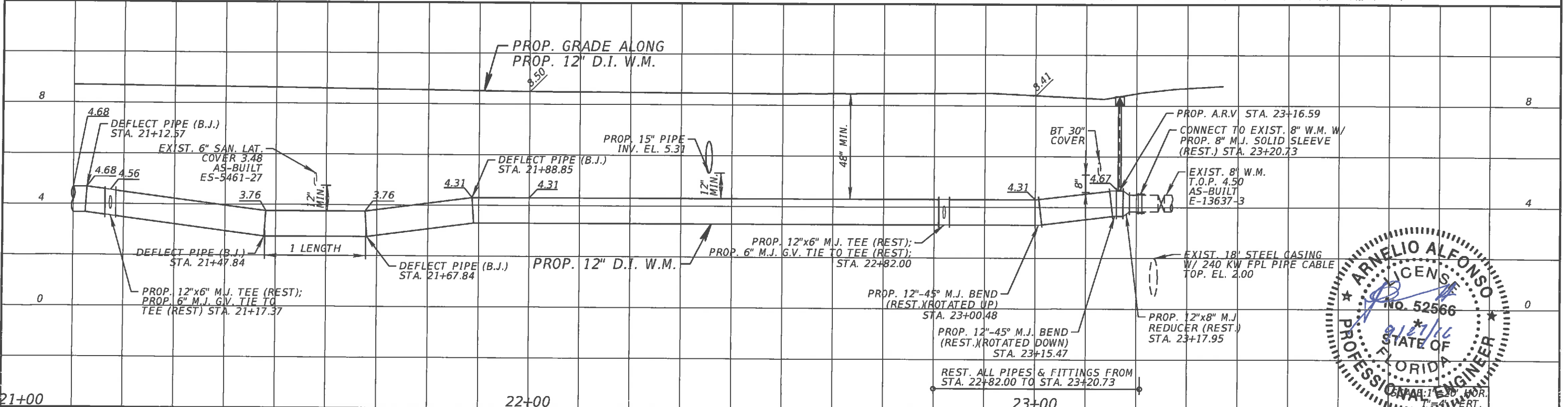
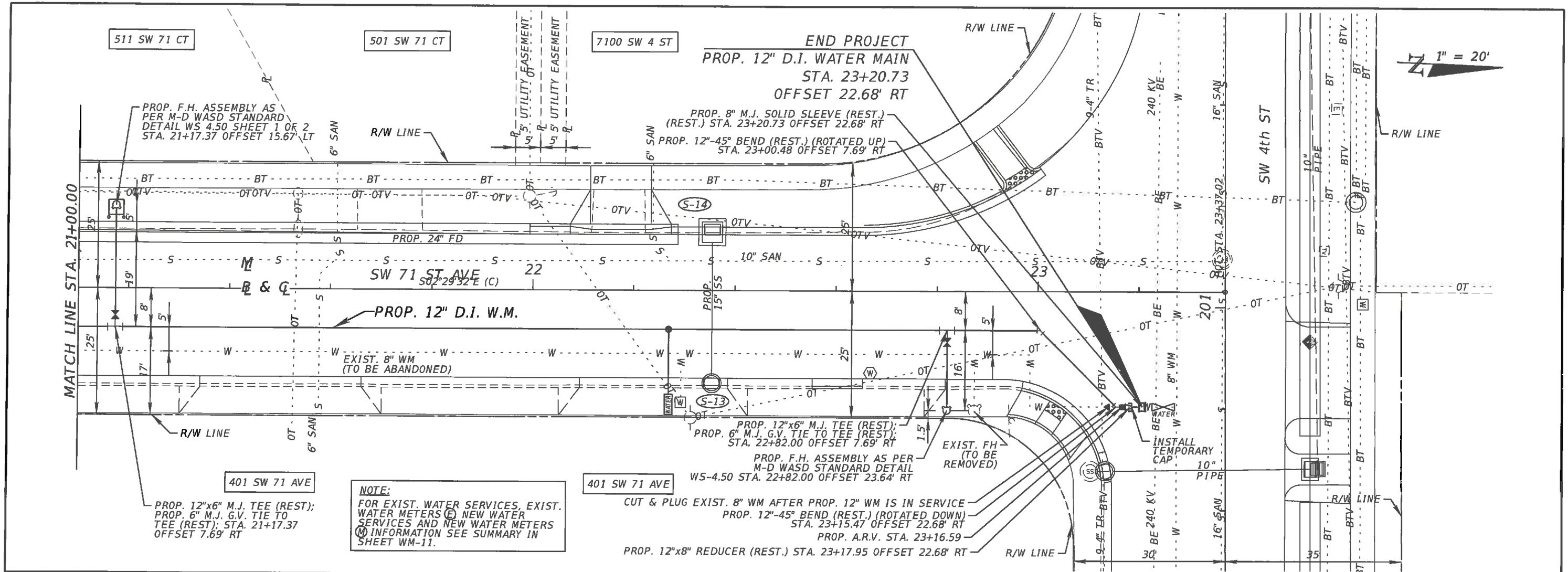
A&P Consulting Transportation Engineers Corp.
 10305 N.W. 41 Street, suite 115
 Miami, FL 33178
 (305) 592-7283 / fax: (305) 593-1594
 CA No. : EB-0007797
 Arnello Alfonso, P.E. No. 52566

WATER & SEWER DEPARTMENT
 3071 SW 38TH AVENUE
 MIAMI, FL 33146-1520
 305-665-7471
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SW 71 AVE	MIAMI-DADE	B50405

PROP. 12" D.I. W.M. PLAN & PROFILE
 SCALE: 1"=20' HOR.
 1"=4' VERT.

SHEET NO.
WM-14



DATE	REVISIONS DESCRIPTION

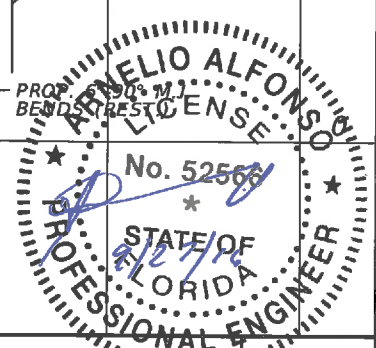
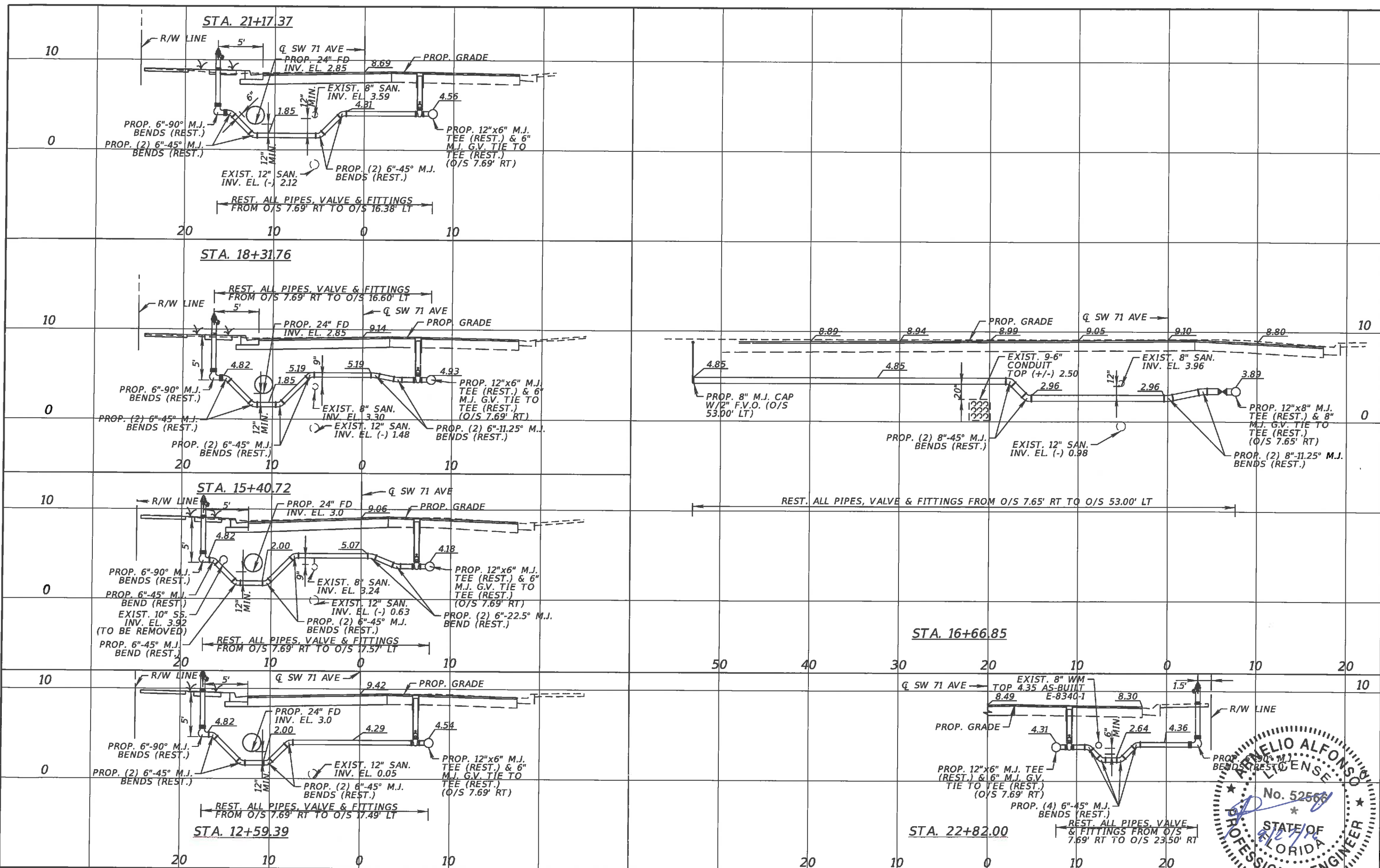
A&P Consulting Transportation Engineers Corp.
 10305 N.W. 41 Street, suite 115
 Miami, FL 33178
 (305) 592-7283 / fax: (305) 593-1594
 CA No. : EB-0007797
 Arnelio Alfonso, P.E. No. 52566

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 3071 SW 38TH AVENUE
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SW 71 AVE	MIAMI-DADE	B50405

**PROP. 12" D.I. W.M.
PLAN & PROFILE**

SHEET NO.
WM-15



DATE	DESCRIPTION

REVISIONS
 A&P Consulting Transportation Engineers Corp.
 10305 N.W. 41 Street, suite 115
 Miami, FL 33178
 (305) 592-7283 / fax: (305) 593-1594
 CA No.: EB-0007797
 Ethel M. Sierra, P.E. No. 55401

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 MIAMI, FL 33146-1520
 305-665-7471
 www.miamidade.gov/water

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SW 71 AVE	MIAMI-DADE	B50405

SIDE STREET AND FIRE HYDRANTS PROFILE
 SHEET NO. WM-16