M-DWASD AGREEMENT ID# 23172

GOVERNORS SQUARE SR. COMMUNITY

TOWN OF MIAMI LAKES, FLORIDA SEC. 22, TWP. 52, RGE. 40

(AKA THE RESIDENCES AT GOVERNORS SQUARE)

FEBRUARY, 2017

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* NOT PART OF M-DWASD APPROVAL

LEGAL DESCRIPTION: (PARENT TRACT & CUT-OUT PARCEL)

A PORTION OF TRACT "A", ACCORDING TO THE PLAT OF "MIAMI LAKES OFFICE PARK SECTION ONE", AS RECORDED IN PLAT BOOK 125 AT PAGE 56 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; TOGETHER WITH A PORTION OF TRACTS 22 AND 23 IN THE NORTHEAST 1/4 OF SECTION 22, TOWNSHIP 52 SOUTH, RANGE 40 EAST AND A PORTION OF TRACT 11 IN THE SOUTHEAST 1/4 OF SECTION 22 TOWNSHIP 52 SOUTH, RANGE 40 EAST AND THAT PORTION OF THE UNNAMED RIGHT-OF-WAY LYING WITHIN THE FOLLOWING DESCRIBED PARCEL, ACCORDING TO THE PLAT OF "CHAMBERS LAND COMPANY SUBDIVISION", AS RECORDED IN PLAT BOOK 2 AT PAGE 68 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; ALL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE MOST EASTERLY CORNER OF SAID TRACT "A", AS SHOWN ON THE SAID PLAT OF "MIAMI LAKES OFFICE PARK SECTION ONE"; THENCE SOUTH 00 DEGREES 07 MINUTES 01 SECONDS WEST, ALONG THE WEST RIGHT-OF-WAY LINE OF INDUSTRIAL WAY (COMMERCE WAY), AS SHOWN ON THE PLAT OF "MIAMI LAKES INDUSTRIAL PARK SECTION NINE", AS RECORDED IN PLAT BOOK 117 AT PAGE 76 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, FOR 194.26 FEET TO THE POINT OF BEGINNING OF THE HEREINAFTER DESCRIBED PARCEL; THENCE CONTINUE SOUTH 00 DEGREES 07 MINUTES 01 SECONDS WEST, ALONG THE LAST DESCRIBED COURSE, FOR 103.00 FEET TO POINT OF CUSP; SAID POINT BEARS SOUTH 89 DEGREES 52 MINUTES 59 SECONDS EAST FROM THE RADIUS POINT OF THE FOLLOWING DESCRIBED CIRCULAR CURVE; THENCE NORTHEASTERLY, NORTHERLY, NORTHWESTERLY AND WESTERLY, ALONG THE ARC OF SAID CIRCULAR CURVE TO THE LEFT, CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 15.00 FEET AND A CENTRAL ANGLE OF 90 DEGREES 07 MINUTES 01 SECONDS FOR AN ARC DISTANCE OF 23.59 FEET TO A POINT OF TANGENCY; THENCE WEST FOR 265.42 FEET; THENCE SOUTH 26 DEGREES 37 MINUTES 31 SECONDS WEST FOR 198.00 FEET; THENCE WEST FOR 180.45 FEET; THENCE NORTH 06 DEGREES 46 MINUTES 44 SECONDS EAST FOR 148.00 FEET TO A POINT OF CURVATURE; THENCE NORTHEASTERLY, NORTHERLY AND NORTHWESTERLY, ALONG THE ARC OF A CIRCULAR CURVE TO THE LEFT, CONCAVE TO THE SOUTHWESTERLY, HAVING A RADIUS OF 20.00 FEET AND A CENTRAL ANGLE OF 70 DEGREES 09 MINUTES 13 SECONDS FOR AN ARC DISTANCE OF 24.49 FEET TO A POINT OF TANGENCY: THENCE NORTH 63 DEGREES 22 MINUTES 29 SECONDS WEST, ALONG A LINE THAT IS 38.00 FEET NORTHEASTERLY OF, AS MEASURED AT RIGHT ANGLES TO, A NORTHEASTERLY LINE OF TRACT "B", AS SHOWN ON THE SAID PLAT OF "MIAMI LAKES OFFICE PARK", FOR 561.93 FEET TO A POINT OF CURVATURE; THENCE NORTHWESTERLY, WESTERLY AND SOUTHWESTERLY, ALONG THE ARC OF A CIRCULAR CURVE TO THE LEFT, CONCAVE TO THE SOUTHEAST, HAVING A RADIUS OF 15.00 FEET AND A CENTRAL ANGLE OF 80 DEGREES 00 MINUTES 00 SECONDS FOR AN ARC DISTANCE OF 20.94 FEET TO A POINT OF TANGENCY; THENCE SOUTH 36 DEGREES 37 MINUTES 31 SECONDS WEST, ALONG A LINE THAT IS PARALLEL WITH AND 38.00 FEET NORTHWESTERLY OF, AS MEASURED AT RIGHT ANGLES TO, A NORTHWESTERLY LINE OF SAID TRACT "B", FOR 177.72 FEET TO A POINT OF CURVATURE; THENCE SOUTHWESTERLY, WESTERLY AND NORTHWESTERLY, ALONG THE ARC OF A CIRCULAR CURVE TO THE RIGHT, CONCAVE TO THE NORTHWEST, HAVING A RADIUS OF 90.00 FEET AND A CENTRAL ANGLE OF 70 DEGREES 00 MINUTES 00 SECONDS FOR AN ARC DISTANCE OF 109.96 FEET TO A POINT OF TANGENCY; THENCE NORTH 73 DEGREES 22 MINUTES 29 SECONDS WEST, ALONG A LINE THAT IS PARALLEL WITH AND 38.00 FEET NORTHEASTERLY OF, AS MEASURED AT RIGHT ANGLES TO, A NORTHEASTERLY LINE OF SAID TRACT "B", FOR 153.96 FEET TO A POINT OF CURVATURE; THENCE NORTHWESTERLY, ALONG THE ARC OF A CIRCULAR CURVE TO THE RIGHT, CONCAVE TO THE NORTHEAST, HAVING A RADIUS OF 90.00 FEET AND A CENTRAL ANGLE OF 61 DEGREES 30 MINUTES 00 SECONDS FOR AN ARC DISTANCE OF 96.60 FEET TO A POINT OF TANGENCY; THENCE NORTH 11 DEGREES 52 MINUTES 29 SECONDS WEST, ALONG A LINE THAT IS PARALLEL WITH AND 38.00 FEET NORTHEASTERLY, OF, AS MEASURED AT RIGHT ANGLES TO, A NORTHEASTERLY LINE OF SAID TRACT "B", FOR 371.19 FEET; THENCE SOUTH 89 DEGREES 52 MINUTES 59 SECONDS EAST FOR 457.66 FEET TO A POINT ON THE NEXT DESCRIBED CIRCULAR CURVE, SAID POINT BEARS NORTH 82 DEGREES 33 MINUTES 49 SECONDS WEST FROM THE RADIUS POINT OF FOLLOWING DESCRIBED CIRCULAR CURVE; THENCE NORTHEASTERLY, ALONG THE ARC OF SAID CIRCULAR CURVE TO THE RIGHT, CONCAVE TO THE SOUTHEAST, HAVING A RADIUS OF 57.00 FEET AND A CENTRAL ANGLE OF 33 DEGREES 40 MINUTES 48 SECONDS FOR AN ARC DISTANCE OF 33.51 FEET TO A POINT OF TANGENCY; THENCE NORTH 41 DEGREES 07 MINUTES 01 SECONDS EAST FOR 5.05 FEET TO A POINT ON THE NEXT DESCRIBED CIRCULAR CURVE; SAID POINT BEARS SOUTH 62 DEGREES 55 MINUTES 31 SECONDS WEST FROM THE RADIUS POINT OF THE FOLLOWING DESCRIBED CIRCULAR CURVE; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CIRCULAR CURVE TO THE LEFT, CONCAVE TO THE NORTHEAST, HAVING A RADIUS OF 243.00 FEET AND A CENTRAL ANGLE OF 62 DEGREES 48 MINUTES 30 SECONDS FOR AN ARC DISTANCE OF 266.38 FEET TO A POINT OF TANGENCY; THENCE SOUTH 89 DEGREES 52 MINUTES 59 SECONDS EAST FOR 90.90 FEET; SAID LAST DESCRIBED TWO COURSES BEING ALONG THE SOUTHERLY LIMITS OF A 58.00 FOOT WIDE INGRESS-EGRESS EASEMENT AS RECORDED IN OFFICIAL RECORDS BOOK 13809 AT PAGE 3459, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; THENCE SOUTH 00 DEGREES 07 MINUTES 01 SECONDS WEST, AT RIGHT ANGLES TO THE LAST DESCRIBED COURSE, FOR 118.53 FEET; THENCE SOUTH 63 DEGREES 22 MINUTES 29 SECONDS EAST FOR 158.04 FEET; THENCE SOUTH 26 DEGREES 37 MINUTES 31 SECONDS WEST, AT RIGHT ANGLES TO THE LAST AND NEXT DESCRIBED COURSES, FOR 18.00 FEET; THENCE SOUTH 63 DEGREES 22 MINUTES 29 SECONDS EAST FOR 355.60 FEET; THENCE EAST FOR 307.37 FEET TO A POINT OF CURVATURE; THENCE EASTERLY AND NORTHEASTERLY, ALONG THE ARC OF A CIRCULAR CURVE TO THE LEFT, CONCAVE TO THE NORTHWEST, HAVING A RADIUS OF 15.00 FEET AND A CENTRAL ANGLE OF 89 DEGREES 52 MINUTES 59 SECONDS FOR AN ARC DISTANCE OF 23.53 FEET TO A POINT OF TANGENCY; SAID POINT BEING THE POINT OF BEGINNING, ALL LYING AND BEING IN THE NORTHEAST 1/4 OF SECTION 22, TOWNSHIP 52 SOUTH, RANGE 40 EAST AND THE SOUTHEAST 1/4 OF SECTION 22 TOWNSHIP 52 SOUTH, RANGE 40 EAST, TOWN OF MIAMI LAKES, MIAMI-DADE COUNTY, FLORIDA.

NOT PART OF M-DWASD NOTES NOR APPROVAL

FLOOD CRITERIA NOTES
(NOT A PART OF M-DWASD NOTES NOR APPROVAL)

1. MIAMI-DADE COUNTY FLOOD CRITERIA = 6.60' N.G.V.D.
2. FEMA FLOOD ELEVATION = FLOOD ZONE AE 6.0 PER COMMUNITY PANEL NO. 1206860112L MAP DATED ON 9/11/2009.
3. MIAMI-DADE COUNTY OCT. W.T. =3.40' N.G.V.D.

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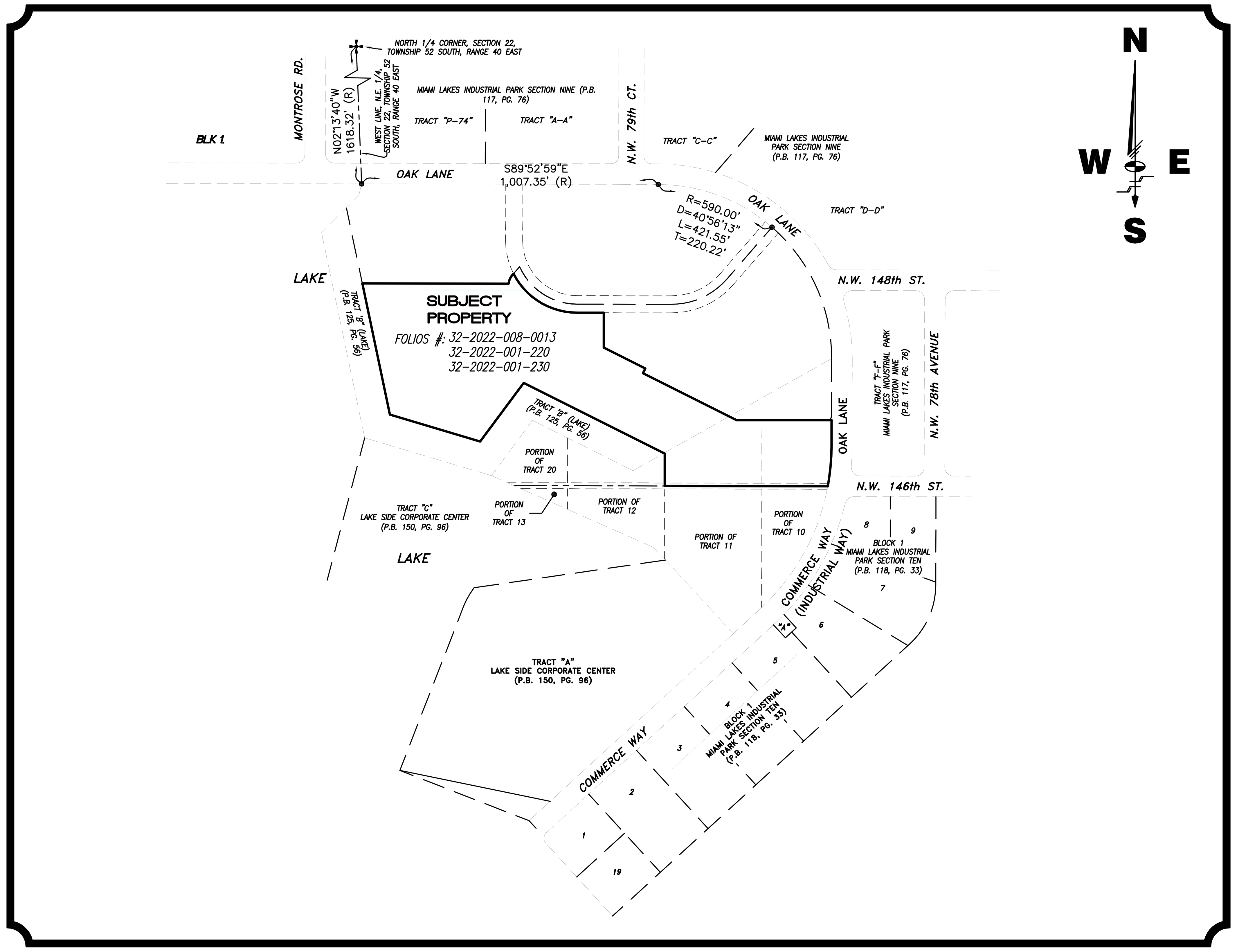

LOCATION SKETCH
SCALE: 1" = 300'

NOTE:
ALL ELEVATIONS SHOWN ARE BASED ON NGVD 1929 DATUM

prepared by

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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 53 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.

MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS 0.5
	03/01/2010	V.F.C.	STANDARD REQUIREMENTS WATER AND SEWER CONSTRUCTION	SHEET 1 OF 2
	07/20/2016	D.V.		

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.

MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS 0.5
	03/11/2009	V.F.C.	"RECORD DRAWING" REQUIREMENTS	SHEET 2 OF 2
	07/20/2016	D.V.		

HERNANDO J. NAVAS LICENSE No. 50635 STATE OF FLORIDA PROFESSIONAL ENGINEER

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FILE No. ML-1159
C-1
SHEET 1 OF 30

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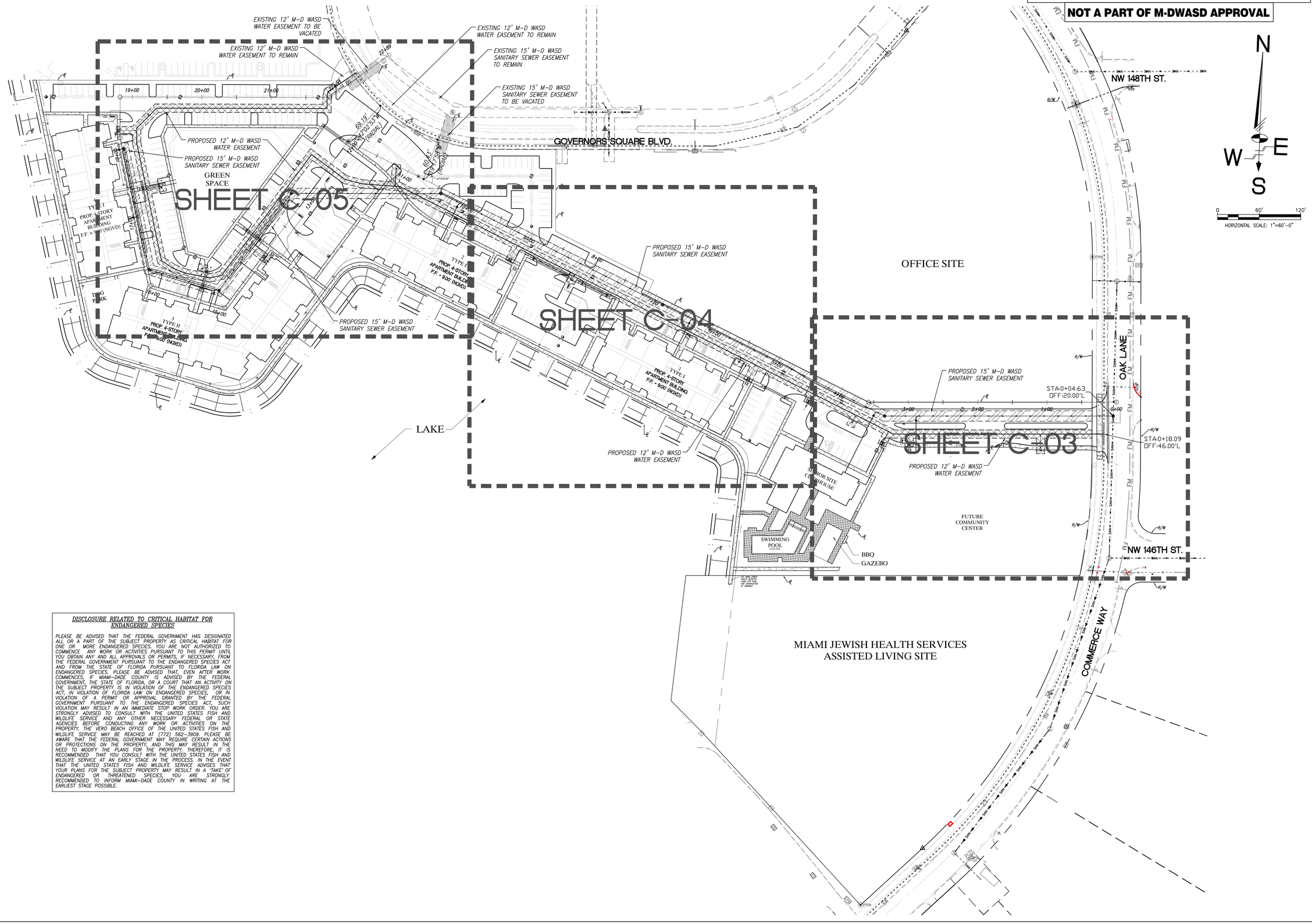
M-DWASD AGREEMENT ID# 23172

NOT A PART OF M-DWASD APPROVAL



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 IN 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.

Schwebke Shiskin & Associates, Inc.

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3240 CORPORATE WAY
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REVISIONS

Date	Remarks	By

HERNANDO J. NAVAS LICENSE No. 50635 STATE OF FLORIDA PROFESSIONAL ENGINEER

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GOVERNORS SQUARE Sr. COMMUNITY

(AKA THE RESIDENCES AT GOVERNORS SQUARE)
OVERALL WATER AND SEWER PLAN

TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: NC Date: 12/12/16

Checked By: HJN Date: 02/28/17

Order No. 206440 FB. Sketches & 00000 Pg.00

Drawing Status: PERMIT

By: Hernando J. Navas
P.E., Principal
Registered Engineer No. 50635
State of Florida

Scale: As Noted

File No. ML-1159

Dwg. No: C-02

OF: 30

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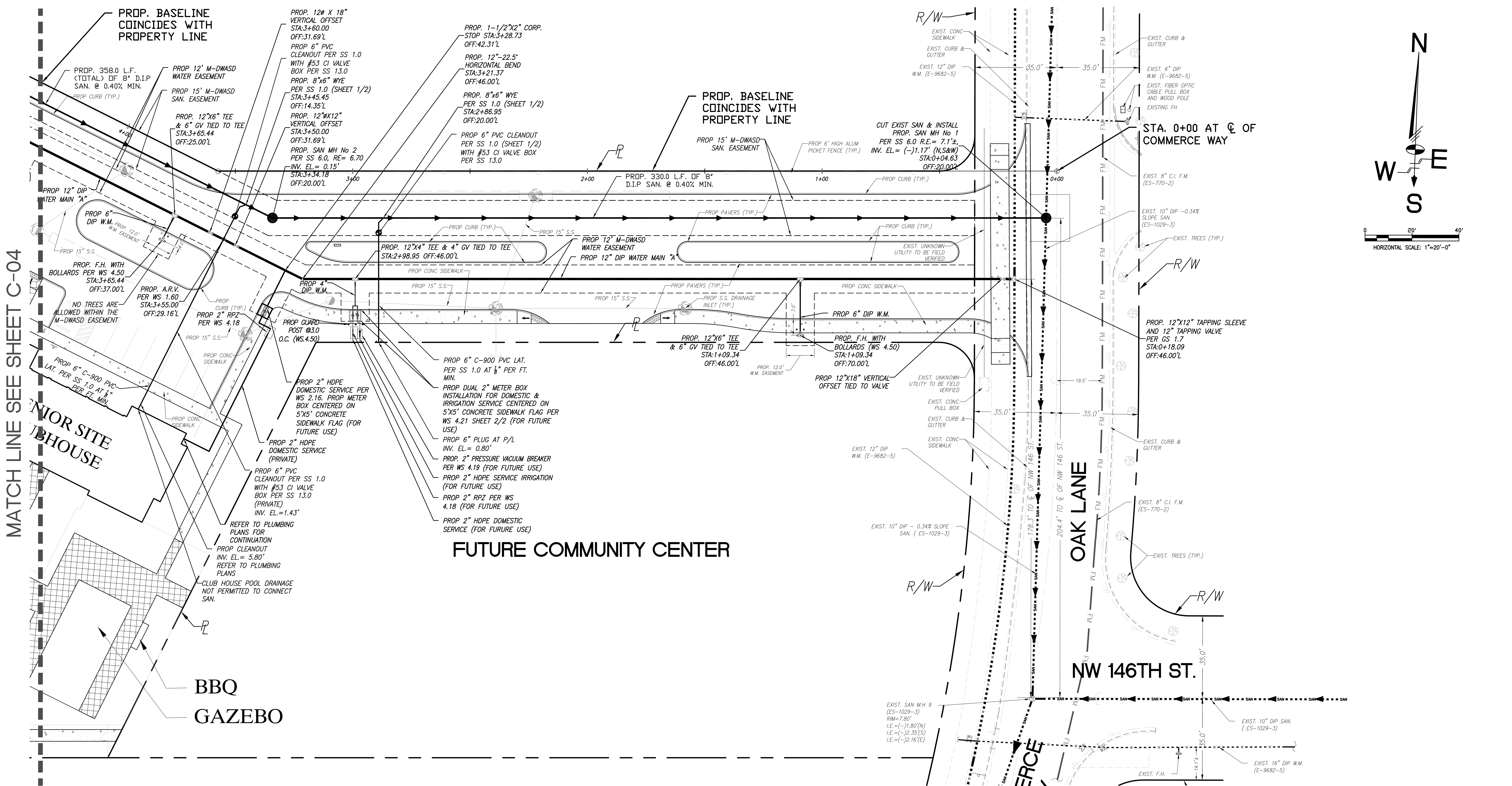
M-DWASD AGREEMENT ID# 23172



FOR ALL PROJECTS 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 THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES, BY M-DWASD FORCES AT OWNERS'S EXPENSE AS APPLICABLE

2. ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

DISCLOSURE RELATED TO CRITICAL HABITAT FOR ENDANGERED SPECIES

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NOTE

1- ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROP WATER AND SEWER FORCE MAINS AND FITTINGS TO BE RESTRAINED PER GS 2.0

2- ALL WATER AND SEWER CROSSINGS PER GS 1.5.

Schwebke Shiskin & Associates, Inc.
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REVISIONS

Date	Remarks	By

HERNANDO J. NAVAS LICENSE No. 50635 STATE OF FLORIDA PROFESSIONAL ENGINEER

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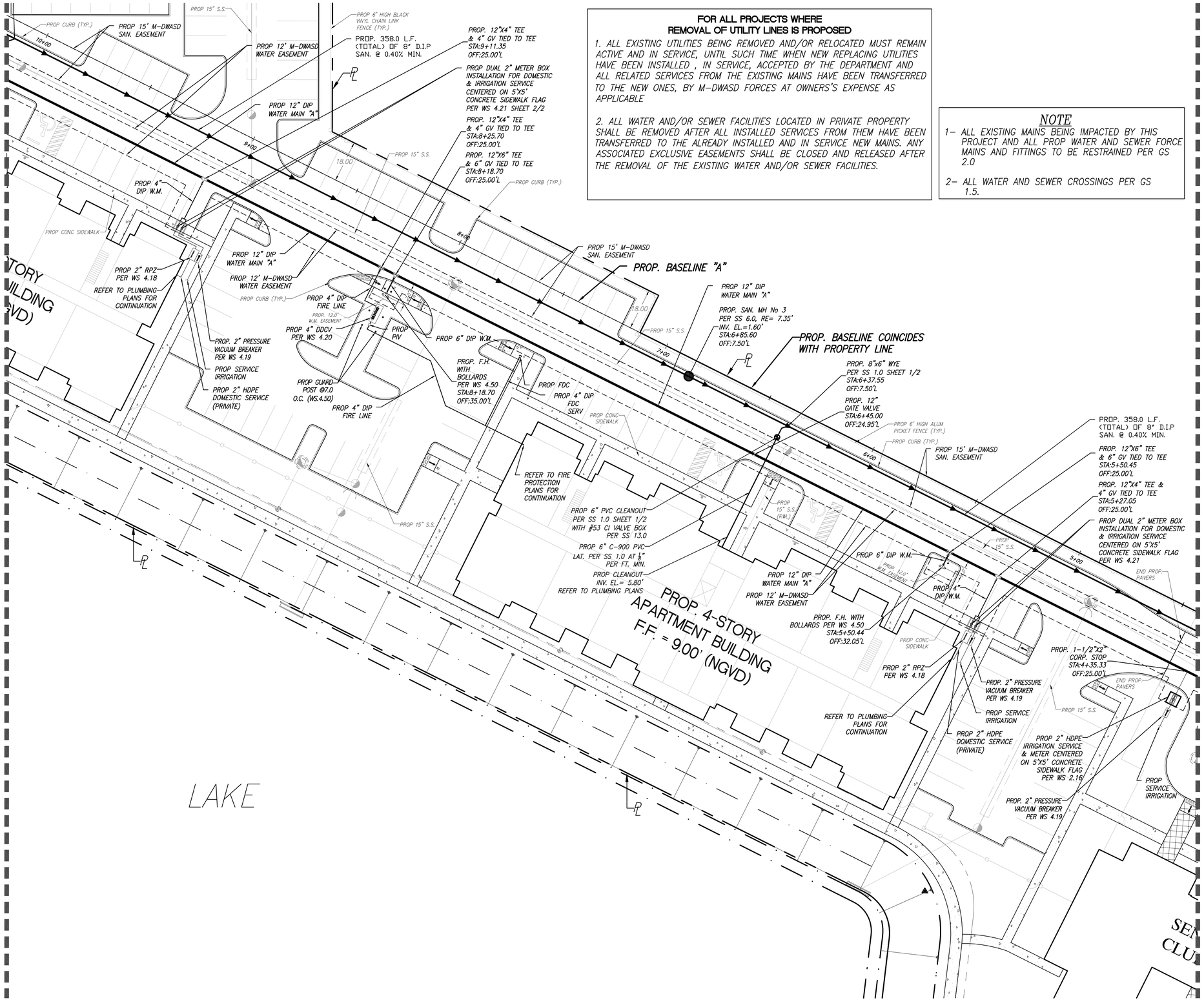
GOVERNORS SQUARE Sr. COMMUNITY
(AKA THE RESIDENCES AT GOVERNORS SQUARE)
WATER AND SEWER PLAN
TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: M.T. Date: 12/12/16
Checked By: HJN Date: 02/28/17
Order No. 206440 FB Sketches & 00000 Pg.00
Drawing Status: PERMIT

By: Hernando J. Navas
P.E., Principal
Registered Engineer No. 50635
State of Florida

Scale: As Noted
File No. ML-1159
Dwg. No: C-03
OF: 30

M-DWASD AGREEMENT ID# 23172



FOR ALL PROJECTS 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 THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES, BY M-DWASD FORCES AT OWNERS'S EXPENSE AS APPLICABLE

2. ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

NOTE

1- ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROP WATER AND SEWER FORCE MAINS AND FITTINGS TO BE RESTRAINED PER GS 2.0

2- ALL WATER AND SEWER CROSSINGS PER GS 1.5.

N
W E
S

0 20' 40'
HORIZONTAL SCALE: 1"=20'-0"

Schwebke Shiskin & Associates, Inc.

LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

REVISIONS

Date	Remarks	By

HERNANDO J. NAVAS LICENSE No. 50635 STATE OF FLORIDA PROFESSIONAL ENGINEER

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(AKA THE RESIDENCES AT GOVERNORS SQUARE)
WATER AND SEWER PLAN
TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

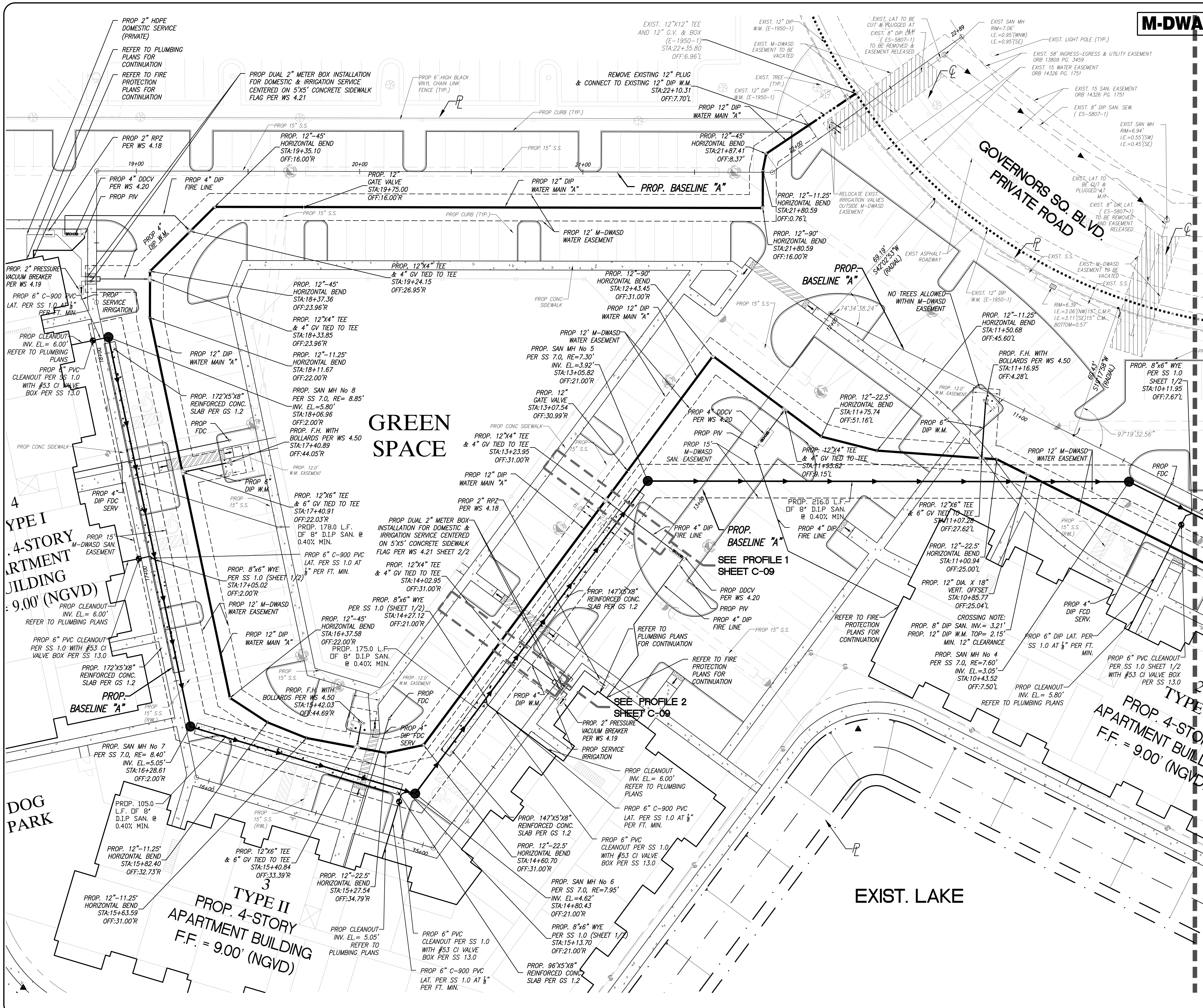
Drawn By: NC Date: 12/12/16
Checked By: HJN Date: 02/28/17
Order No. 206440 FB Sketches & 00000 Pg.00
Drawing Status: PERMIT

By: Hernando J. Navas
P.E., Principal
Registered Engineer No. 50635
State of Florida

Scale: As Noted
File No. ML-1159

Dwg. No:
C-04
OF: 30

M-DWASD AGREEMENT ID# 23172



FOR ALL PROJECTS WHERE REMOVAL OF UTILITY LINES IS PROPOSED

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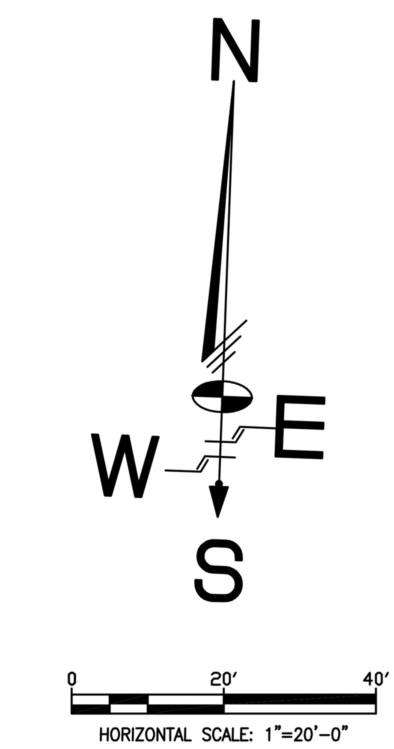
2. ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

NOTES

1- ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROP WATER AND SEWER FORCE MAINS AND FITTINGS TO BE RESTRAINED PER GS 2.0

2- ALL WATER AND SEWER CROSSINGS PER GS 1.5.

3- CLEARANCE FROM LANDSCAPING, PARKING, OR OTHER OBSTRUCCIONS AROUND FIRE HYDRANTS, SHALL BE A MINIMUM OF 7.5' IN FRONT OF AND TO THE SIDES OF EACH APPLIANCE NFPA 1 18.3.4.1 AND 18.3.4.2



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LAND SURVEYORS
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LB#87 CA#87
3240 CORPORATE WAY
MIRAMAR, FL 33025
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FAX: (305)652-8284

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GOVERNORS SQUARE Sr. COMMUNITY

(AKA THE RESIDENCES AT GOVERNORS SQUARE)
WATER AND SEWER PLAN

TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: NC Date: 12/12/16
Checked By: HJN Date: 02/28/17
Order No. 206440 FB. Sketches & 00000 Pg.00
Drawing Status: PERMIT

By:
Hernando J. Navas
P.E., Principal
Registered Engineer No. 50635
State of Florida

Scale: As Noted
File No. ML-1159

Dwg. No: C-05
OF: 30

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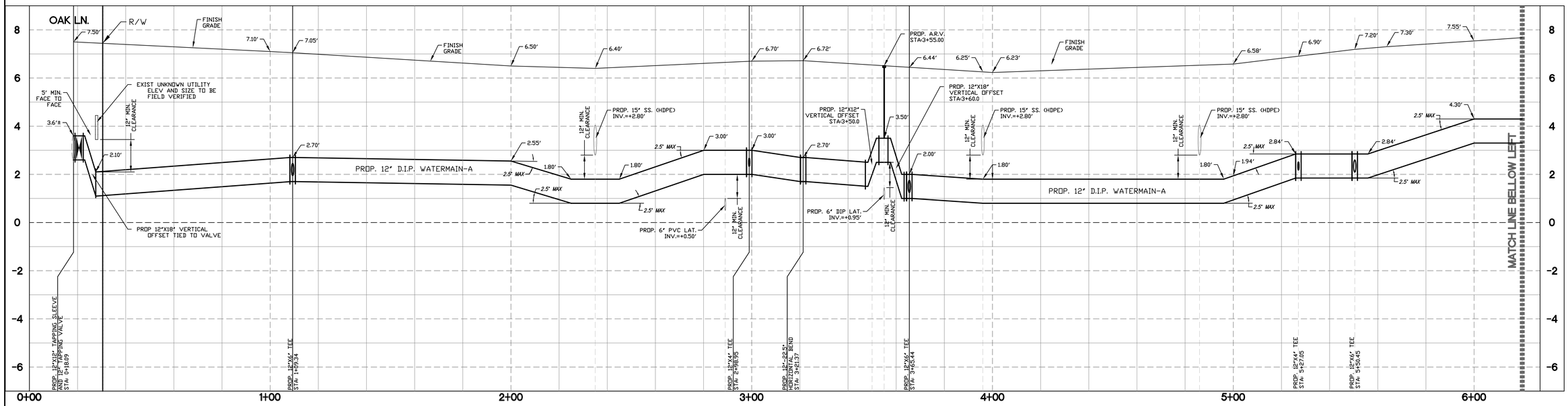
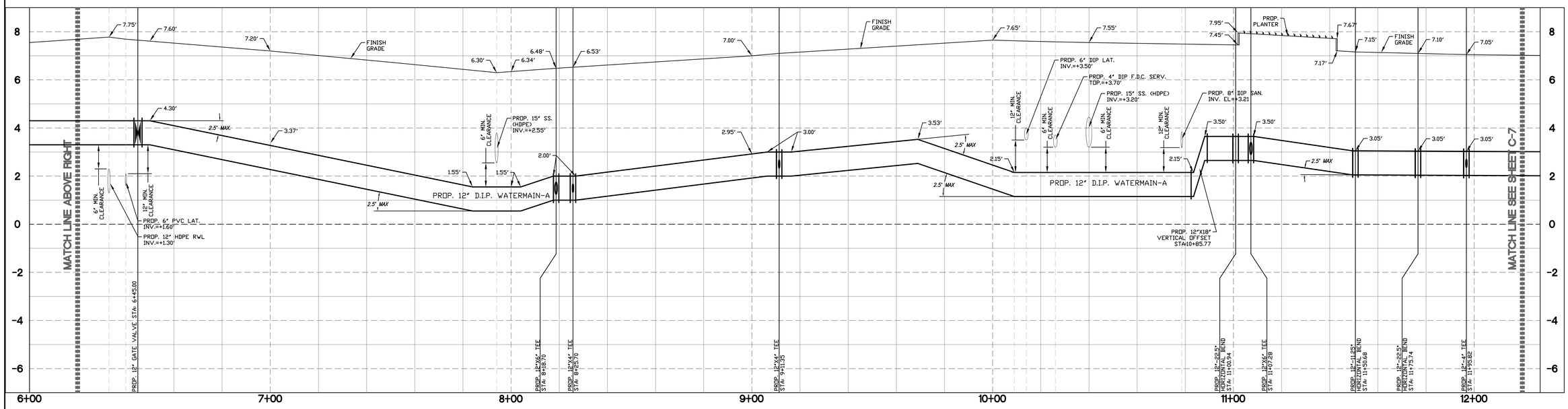
M-DWASD AGREEMENT ID# 23172



WATER MAIN "A"



WATER MAIN "A"

NOTE

1- DEFLECTIONS ARE TO BE 2.5 DEG. MAX.

HORIZONTAL SCALE: 1"=20'-0"

VERTICAL SCALE: 1"=2'-0"

Schwebke Shiskin & Associates, Inc.

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GOVERNORS SQUARE St, COMMUNITY

(AKA THE RESIDENCES AT GOVERNORS SQUARE)

WATER MAIN PROFILE

TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: XC Date: 12/12/16

Checked By: HJN Date: 02/28/17

Order No. 206440 FB. Sketches & 00000 Pg.00

Drawing Status: PERMIT

By: Hernando J. Navas
P.E., Principal
Registered Engineer No. 50635
State of Florida

Scale: As Noted

File No. ML-1159

Dwg. No: C-06

OF: 30

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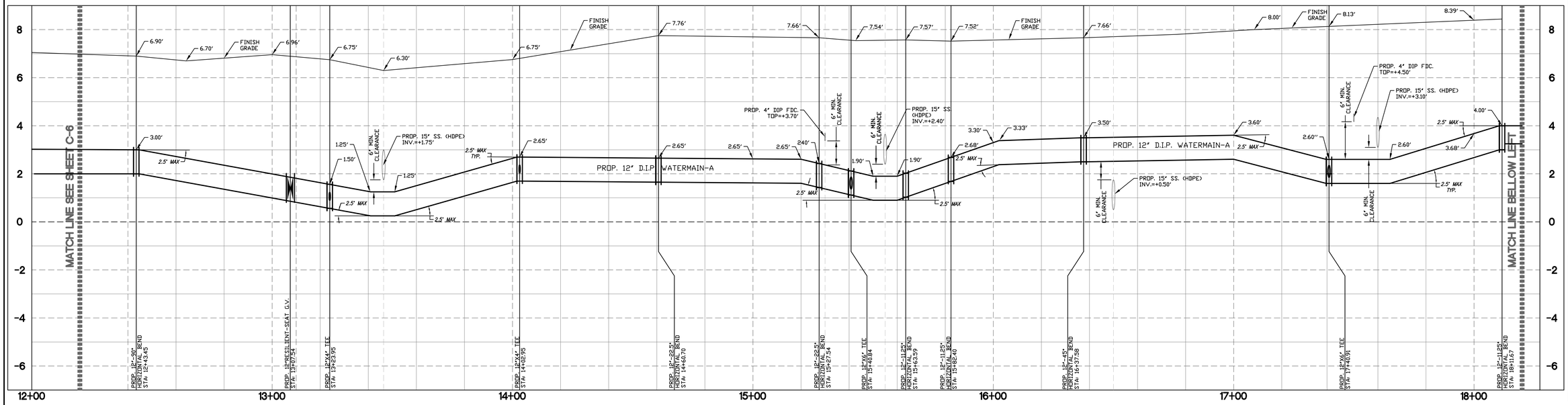
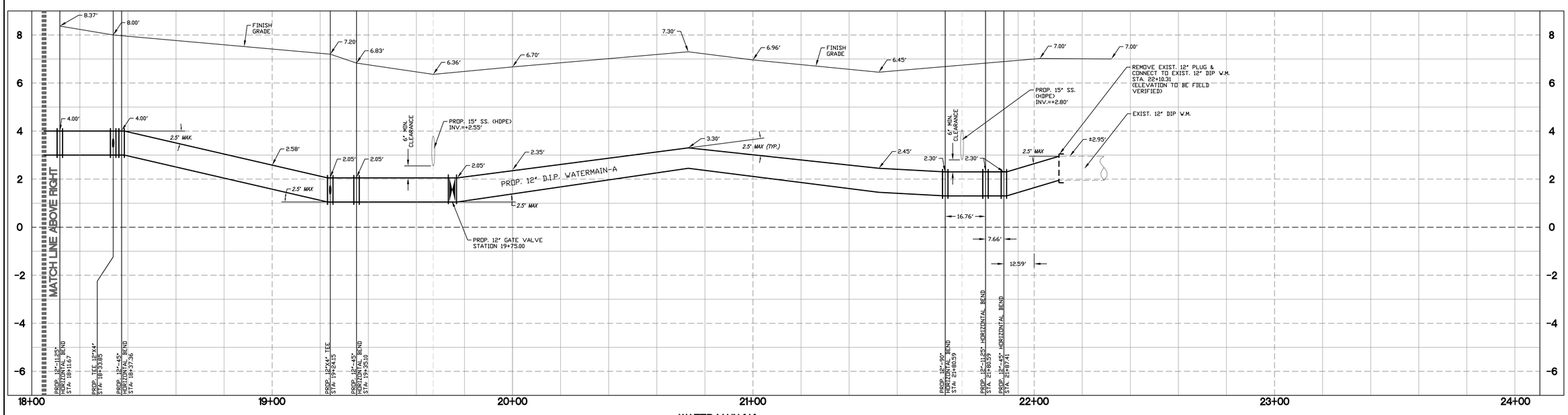
M-DWASD AGREEMENT ID# 23172



WATER MAIN "A"



WATER MAIN "A"

NOTE

1- DEFLECTIONS ARE TO BE 2.5 DEG. MAX.

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VERTICAL SCALE: 1"=2'-0"

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WATER MAIN PROFILE

TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: NC Date: 12/12/16

Checked By: HJN Date: 02/28/17

Order No. 206440 FB. Sketches & 00000 Pg.00

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By: Hernando J. Navas
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Registered Engineer No. 50635
State of Florida

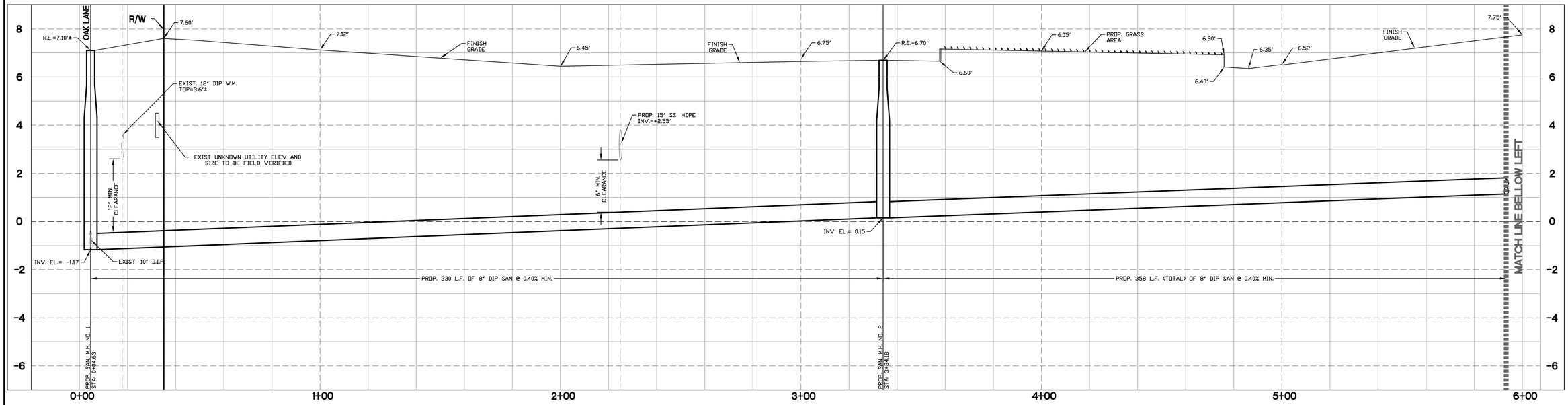
Scale: As Noted

File No. ML-1159

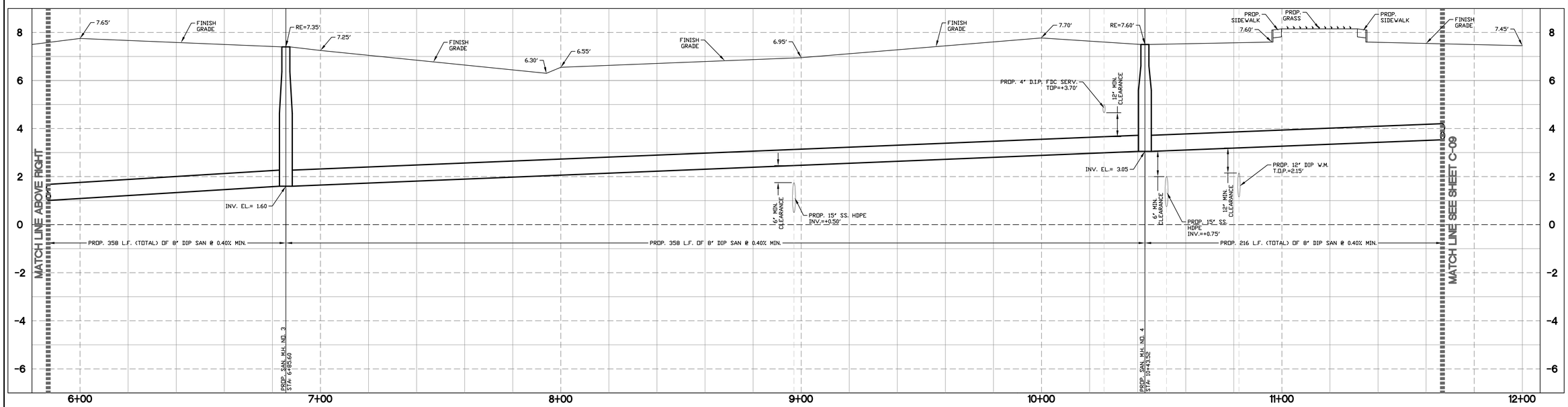
Dwg. No: C-07

OF: 30

M-DWASD AGREEMENT ID# 23172



SANITARY MAIN "A"



SANITARY MAIN "A"

HORIZONTAL SCALE: 1"=20'-0"

VERTICAL SCALE: 1"=2'-0"

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LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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GOVERNORS SQUARE Sr. COMMUNITY

(AKA THE RESIDENCES AT GOVERNORS SQUARE)
SANITARY SEWER PROFILE

TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: XC Date: 12/12/16

Checked By: HJN Date: 02/28/17

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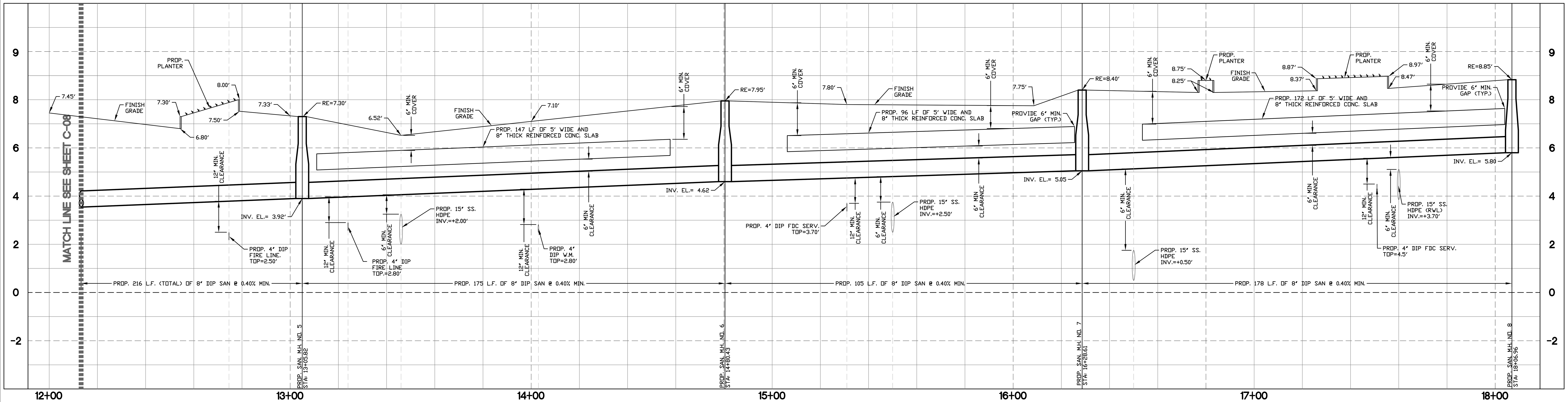
Registered Engineer No. 50635
State of Florida

Scale: As Noted

File No. ML-1159

Dwg. No:
C-08
OF: 30

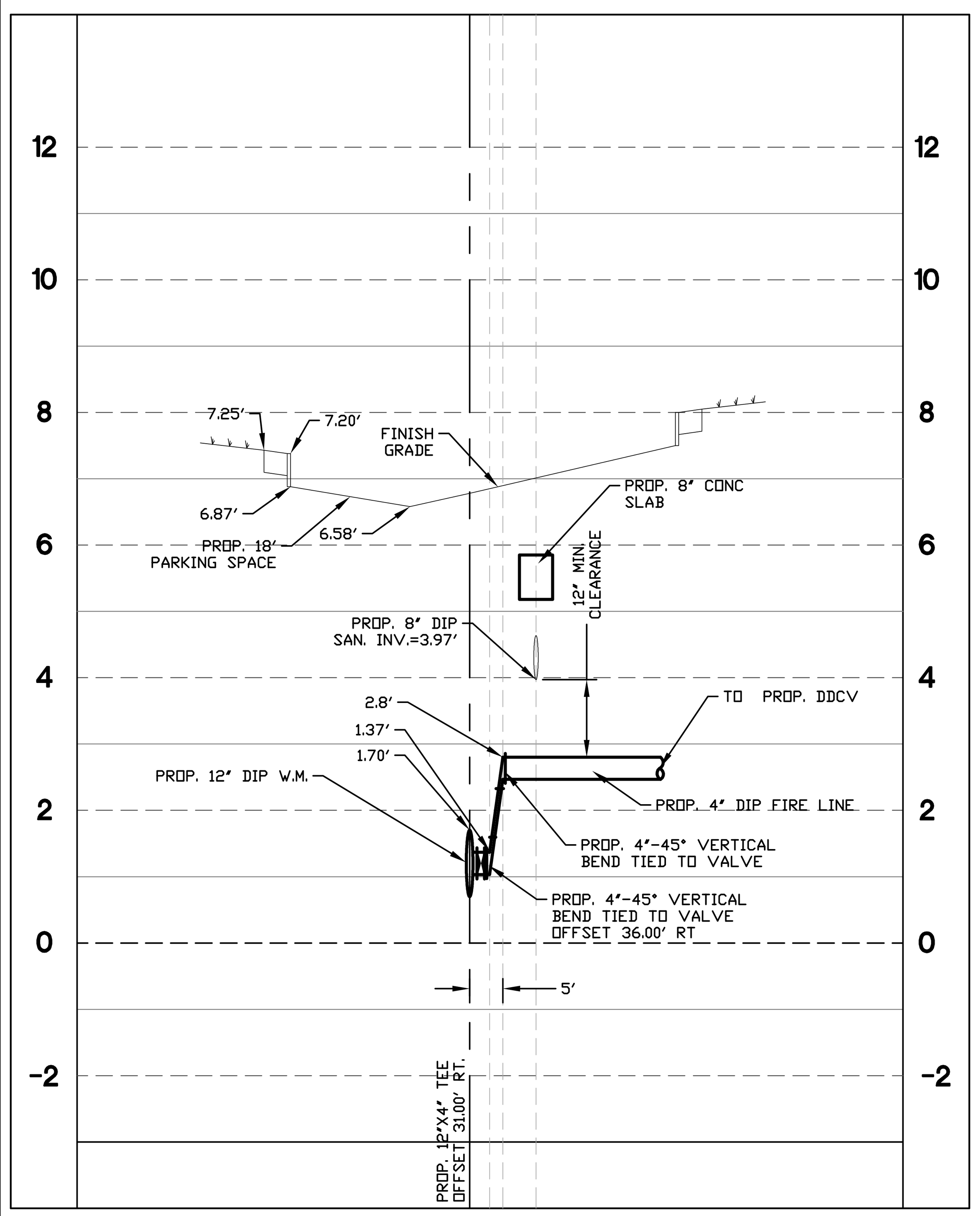
M-DWASD AGREEMENT ID# 23172



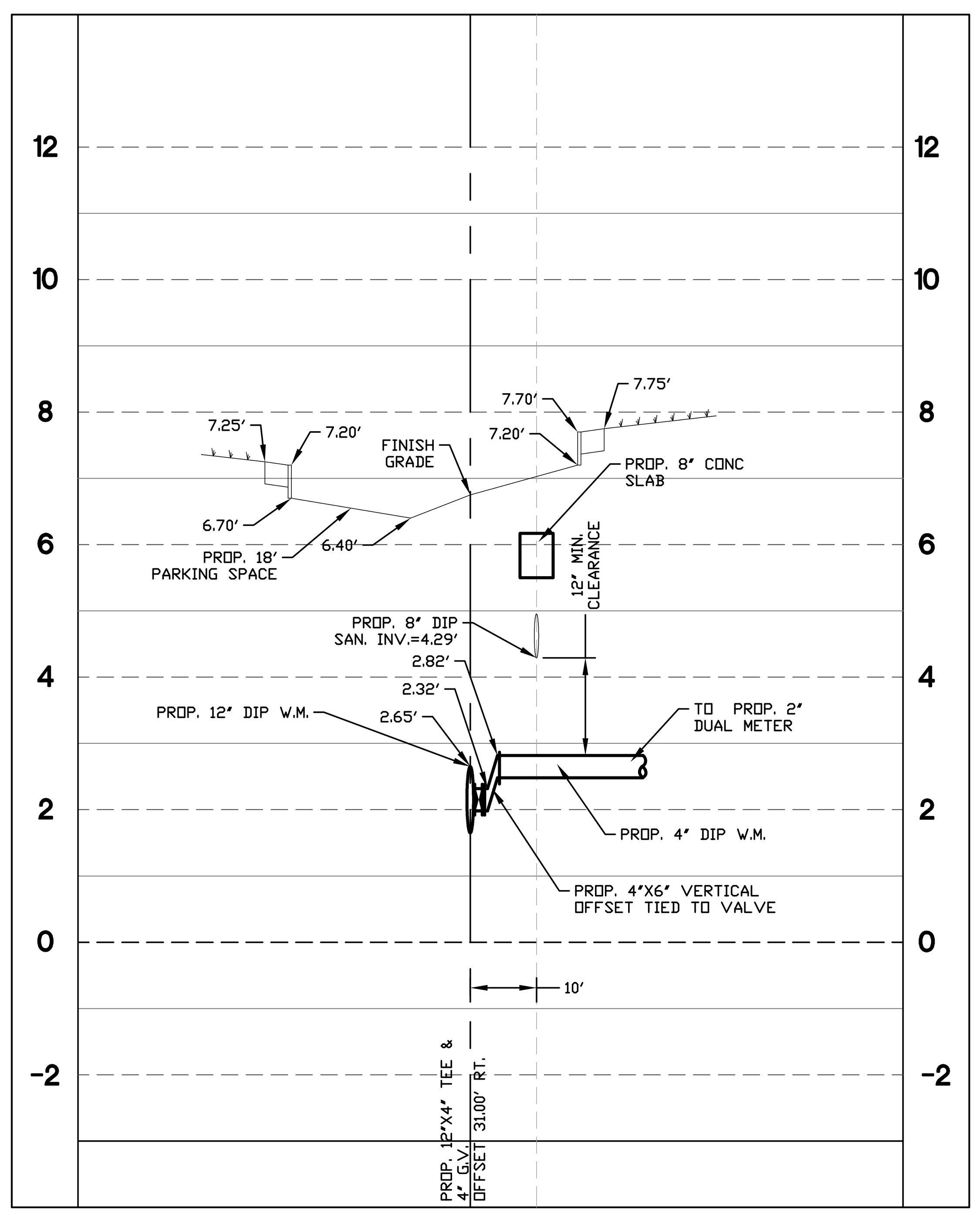
SANITARY MAIN "A"

HORIZONTAL SCALE: 1"=20'-0"
VERTICAL SCALE: 1"=2'-0"

NOTE:
PROVIDE 8" REINFORCED CONCRETE SLAB OVER ANY PORTION OF THE SEWER PIPE WITH LESS THAN 30" OF COVER PER GS 1.2



PROPOSED 4" DIP FIRE LINE
PROFILE 1 (STA 13+23.95)



PROPOSED 4" DIP WATER MAIN
PROFILE 2 (STA 14+02.95)

HORIZONTAL SCALE: 1"=20'-0"
VERTICAL SCALE: 1"=2'-0"

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SANITARY SEWER PROFILE
TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: NC Date: 12/12/16
Checked By: HJN Date: 02/28/17
Order No. 206440 FB Sketches & 00000 Pg 00
Drawing Status: PERMIT

By:
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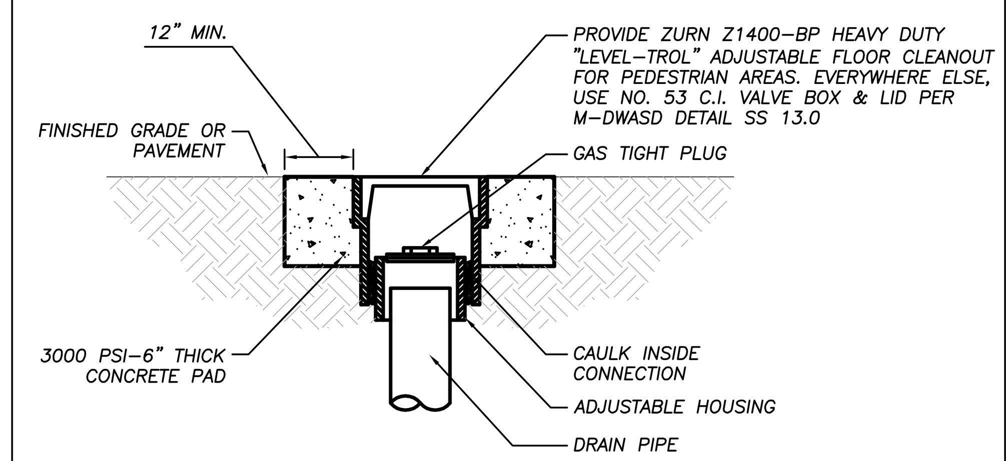
P.E., Principal
Registered Engineer No. 50635
State of Florida

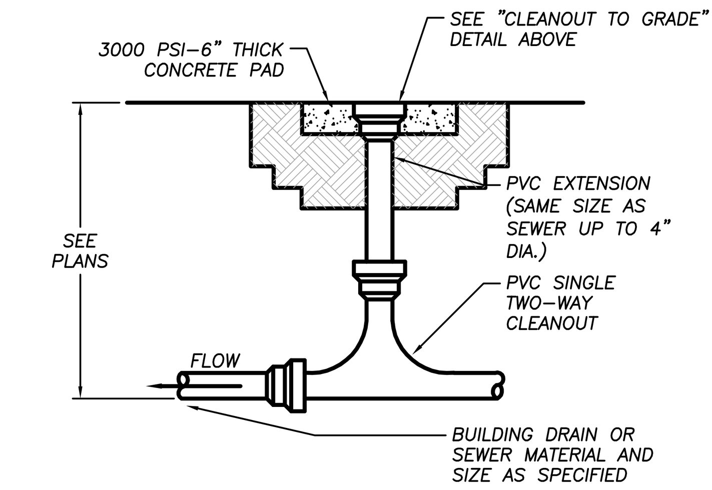
Scale: As Noted
File No. ML-1159
Dwg. No: C-09
OF: 30

RER-DERM NOTES ON WATER-SEWER INSTALLATION (NOT PART OF M-DWASD NOTES NOR APPROVAL)

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 BOTTOM 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 ALLOWS IF:
   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:
   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 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. FORCE MAIN 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 FORCE MAIN 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.



CLEANOUT TO GRADE
(NOT PART OF M-DWASD NOTES OR APPROVAL)

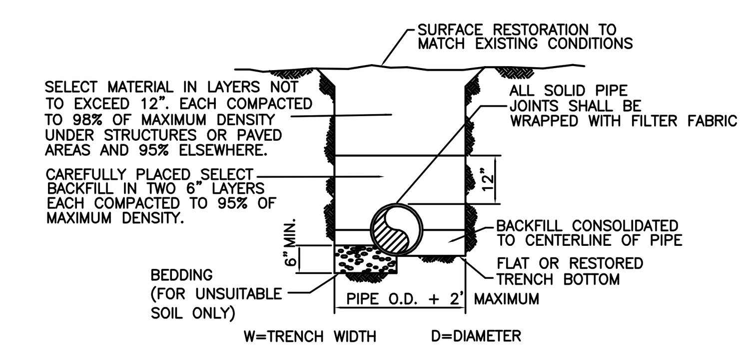


EXTERIOR CLEANOUT
(NOT PART OF M-DWASD NOTES OR APPROVAL)

M-DWASD AGREEMENT ID# 23172

ENGINEER'S NOTES
(NOT PART OF M-DWASD NOTES NOR APPROVAL)

1. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER AUTHORITY AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH MIAMI-DADE WATER AND SEWER DEPARTMENT (AUTHORITY).
2. THE LOCATIONS OF THE EXISTING UTILITIES, SHOWN ON THE DRAWINGS, ARE BASED UPON THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER AND ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES LOCATED IN THE AREA OF THE PROPOSED WORK, PRIOR TO COMMENCING CONSTRUCTION (I.E., UNDERGROUND ELECTRIC, TELEPHONE, WATER, ETC.). THE ENGINEER TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF ALL EXISTING UTILITIES OR FOR THOSE NOT SHOWN ON THE DRAWINGS.
3. COVER OVER WATER MAINS SHALL BE A MINIMUM OF 4'-0" UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
4. ALL WATER MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 VALVE BOXES. FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO.2 VALVE BOXES.
5. ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER AUTHORITY, PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID. THE METER BOX AND SERVICE PIPING SHALL BE INSTALLED BY THE CONTRACTOR.
6. FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH AUTHORITY STANDARDS.
7. THE MIAMI-DADE WATER AND SEWER AUTHORITY AND THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
8. ALL WATER MAINS SHALL BE CHLORINATED IN ACCORDANCE WITH AWWA STANDARD C-651, LATEST REVISION. THE CONTRACTOR SHALL CONTACT THE LOCAL HEALTH DEPARTMENT AND REQUEST BACTERIOLOGICAL SAMPLES BE OBTAINED WITH COPIES BEING FORWARDED TO THE ENGINEER.
9. AUTHORITY PERSONNEL WILL INSPECT ALL FACILITIES APPROVED BY THE AUTHORITY. THE OTHER PERMITTING AGENCIES SHALL INSPECT ALL FACILITIES APPROVED BY THEM AND CONSTRUCTION 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 MIAMI-DADE WATER AND SEWER AUTHORITY AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE AUTHORITY:
   1) EASEMENTS, IF REQUIRED BY THE OWNER
   2) CONTRACTOR'S WAIVER AND RELEASE OF LIEN
   3) ABSOLUTE BILL OF SALE
   4) CONTRACTOR'S MAINTENANCE BOND
   5) "AS-BUILT" MYLAR, 24"X36": SHOWING T.O.P. ELEVATIONS AT 100' STATIONS; FINISH GRADE ELEVATIONS AT 200' STATIONS; OFFSET FROM R/W OR PL; STATION AND LENGTH OF SERVICES; THE POINT OF CONNECTION TO EXIST. MAINS TIED TO CENTER LINE OF EXIST. ROADS; ETC. FOR ALL WATER FACILITIES; RIM AND INVERT ELEVATIONS FOR ALL MANHOLES; DISTANCE AND SLOPE BETWEEN MANHOLES; SERVICE LOCATION AND LENGTHS; OFFSETS FOR MANHOLES FROM R/W OR PL FOR THE SEWER FACILITIES; AS LOCATED BY A LICENSED SURVEYOR; ALONG WITH THREE (3) PRINTS OF THE "AS-BUILT" WHICH HAS BEEN SEALED BY THE SURVEYOR.
11. ALL CONNECTIONS FROM EXISTING AUTHORITY MAINS TO BE MADE BY AUTHORITY FORCES ONLY. THE CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS AND PROVIDE MATERIAL WITH FITTINGS.
12. IF A VERTICAL DISTANCE BETWEEN THE WATER AND SEWER MAINS IS LESS THAN 18 INCHES WHEN A WATER MAIN CROSSES OVER A SEWER MAIN, OR ANY TIME A WATER MAIN CROSSES UNDER A SEWER MAIN, THE SEWER SHALL BE D.I.P. FOR A DISTANCE OF 20 FEET CENTERED ON THE CROSSING.
13. MAINTAIN 10 FEET HORIZONTAL DISTANCE BETWEEN THE WATER AND SEWER MAINS, AS A MINIMUM.
14. CONTRACTOR WILL BE REQUIRED TO OBTAIN THE LATEST PAVING AND DRAINAGE PLAN PREPARED BY SCHWEBKE-SHISKIN AND ASSOCIATES, INC. AND HAVE IT AVAILABLE AT THE JOB SITE FOR THE USE OF MIAMI-DADE WATER AND SEWER AUTHORITY PERSONNEL.
15. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C-600, LATEST REVISION, AND APPLYING THE FOLLOWING FORMULA:
   $L = [SD*(P^{1/2})]/148,000$
   L = LEAKAGE IN GALLONS
   S = LENGTH OF PIPE IN FEET
   D = DIAMETER OF PIPE IN INCHES
   P = AVERAGE TEST PRESSURE IN LBS. PER SQ. IN.
16. ALL WATER METERS AND SERVICE LINES THAT WILL BE CONNECTED TO EXISTING WATER MAINS WILL BE INSTALLED BY AUTHORITY PERSONNEL.
17. IN THE EVENT UNSUITABLE MATERIAL IS ENCOUNTERED AT THE DEPTH OF THE PROPOSED WATER AND SEWER FACILITIES, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR PROPER DIRECTION PRIOR TO CONTINUANCE OF CONSTRUCTION.
18. ALL VALVE BOXES AND MANHOLE RIMS SHALL BE SET TO MATCH THE PROPOSED GRADES AS PER THE PAVING AND DRAINAGE PLAN PREPARED BY SCHWEBKE-SHISKIN & ASSOCIATES, INC.
19. ALL WATER AND SEWER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MIAMI-DADE WATER AND SEWER AUTHORITY STANDARDS.
20. ALL SEWERS INSTALLED WITHIN THE CONE OF INFLUENCE SHALL NOT EXFILTRATE AT THE RATE IN EXCESS OF 100 GALLONS PER DAY PER INCH DIA. PER MILE AND ALL CONSTRUCTION SHALL BE IN CONFORMITY WITH ALL REQUIREMENTS OF SECTION 24-12.1 OF THE DADE COUNTY CODE.
21. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND CHAPTER 90-86 (CS/BS 2626) THE FLORIDA TRENCH SAFETY ACT SHALL BE STRICTLY OBSERVED.
22. ALL ELEVATIONS ON THE PLANS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM (NGVD).
23. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
24. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS.



NOTES:
1. BEDDING MATERIAL WHEN NECESSARY, SHALL BE CLEAN SANDY SOIL WHENEVER AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED 3/4" MAX. SIZED CRUSHED LIMEROCK. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID.
2. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.

TRENCH DETAIL
N.T.S.

NOT PART OF WASD APPROVAL

NOTE: NOT A PART OF M-DWASD NOTES OR APPROVAL

CONTRACTOR TO COORDINATE ALL WORK TO BE DONE BY M-DWASD FORCES AT OWNERS EXPENSE. COORDINATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
1. DEALING WITH M-DWASD OFFICIALS AT THE BEGINING OF THE PROJECT TO ENSURE THAT THE M-DWASD WORK WILL NOT IMPACT THE PROJECT SCHEDULE.
2. OBTAINING ANY CHECKS OR OTHER FORMS OF PAYMENT FROM THE DEVELOPER.
3. PROVIDING THE OWNER AND ENGINEER OF RECORD WITH M-DWASD'S ANTICIPATED WORK SCHEDULE.

DEPARTMENT OF HEALTH
(NOT PART OF M-DWASD NOTES NOR APPROVAL)

WATER MAIN HORIZONTAL SEPARATIONS

1. SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE.
2. BETWEEN WATER MAINS AND STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM.
3. BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM.
4. GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6 FT. DISTANCE BETWEEN WATER MAIN AND GRAVITY SEWER MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAIN IS AT LEAST 6 INCHES ABOVE TOP OF SEWER.
5. 10 FT. MINIMUM TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.

WATER MAIN VERTICAL SEPARATIONS

1. SEPARATIONS BETWEEN WATER MAINS AND VACUUM TYPE SEWER, OR STORM SEWERS TO BE PREFERABLY 12 INCHES, OR AT LEAST 6 INCHES ABOVE, OR AT LEAST 12 INCHES IF BELOW.*
2. PRESSURE SANITARY SEWER, WASTEWATER, OR STORMWATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.*

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

ALL WATER MAINS 24 INCHES IN DIAMETER OR LESS, SHALL BE BLUE IN COLOR OR HAVE A 2 INCH WIDE BLUE STRIPE PAINTED ALONG THE CENTERLINE OF THE PIPE.

Schwebke Shiskin & Associates, Inc.
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CIVIL ENGINEERS
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FAX: (305)652-8284

REVISIONS

Date	Remarks	By

HERNANDO J. NAVAS LICENSE No. 50635 STATE OF FLORIDA PROFESSIONAL ENGINEER

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GOVERNORS SQUARE Sr. COMMUNITY
(AKA THE RESIDENCES AT GOVERNORS SQUARE)
WATER AND SEWER DETAILS AND NOTES
TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: NC Date: 12/12/16
Checked By: HJN Date: 02/28/17
Order No. 206440 FB. Sketches & 00000 Pg.00
Drawing Status: PERMIT

By: ______
Hernando J. Navas
P.E., Principal
Registered Engineer No. 50635
State of Florida

Scale: As Noted
File No. ML-1159

Dwg. No:
C-10
OF: 30

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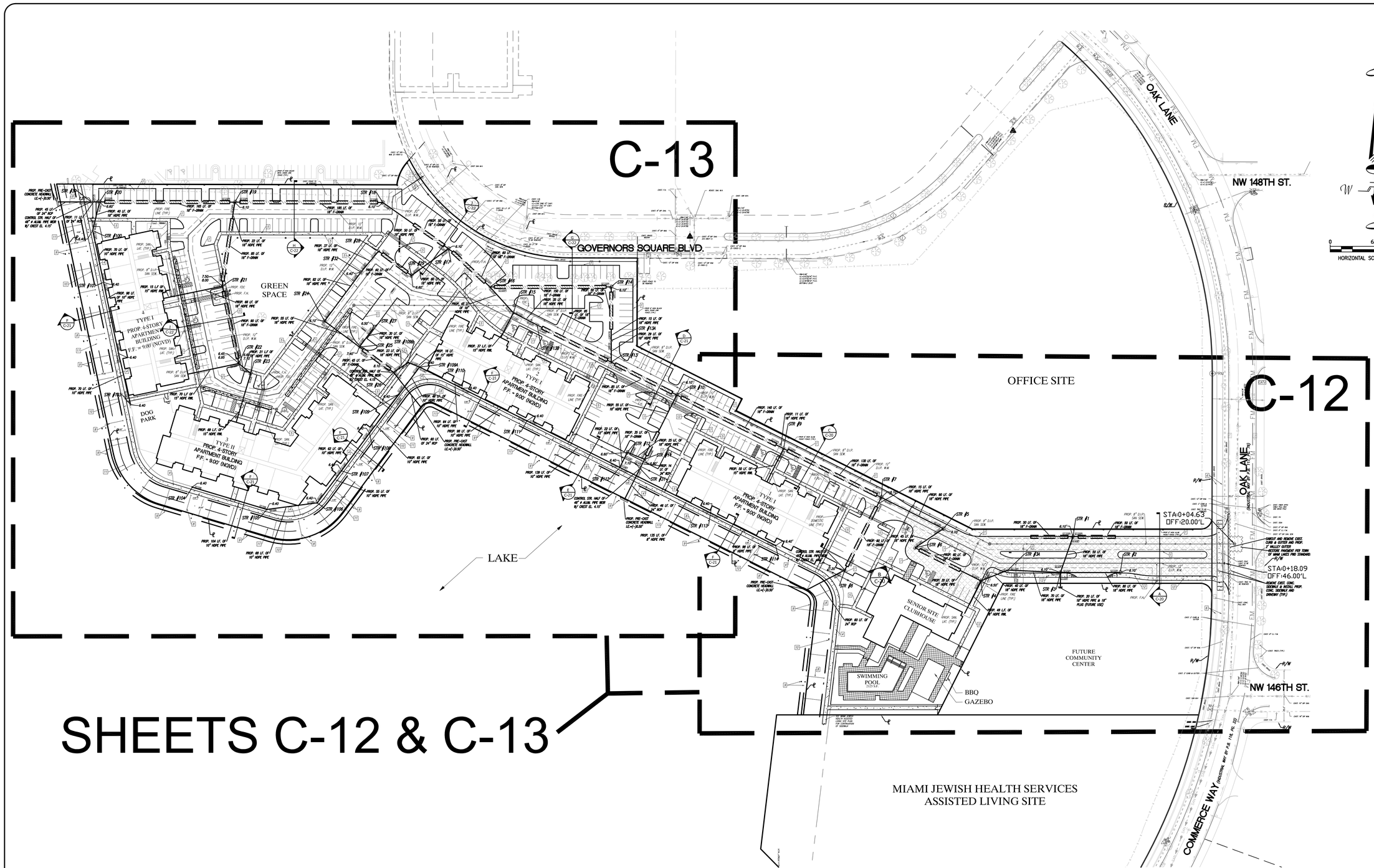

SHEETS C-12 & C-13

EXISTING FEATURES LEGEND:

- DENOTES EXISTING FIRE HYDRANT
- DENOTES EXISTING ELEVATIONS
- DENOTES WATER VALVE
- DENOTES PROPERTY LINE
- DENOTES RIGHT OF WAY LINE
- DENOTES RIGHT OF WAY LINE
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- DENOTES IRRIGATION VALVE
- DENOTES GUARD POST
- DENOTES STORM SEWER MANHOLE
- DENOTES SIGN POST
- DENOTES ALUMINUM LIGHT POST

PROPOSED FEATURES LEGEND:

- 6.30' DENOTES PROPOSED ELEVATION
- DENOTES PROPOSED FRENCH DRAIN W/ INLET
- 3.0'* DENOTES PROPOSED INVERT W/ BAFFLE
- 3.0' DENOTES PROPOSED INVERT ELEVATION
- DENOTES PROPOSED SLOPE TIPS
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GOVERNORS SQUARE St. COMMUNITY
(AKA THE RESIDENCES AT GOVERNORS SQUARE)
PAVING AND DRAINAGE OVERALL PLAN
TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: MT Date: 12/12/16
Checked By: HJN Date: 02/28/17
Order No. 206440 FB: Sketches & 03000 Pg.00
Drawing Status: PERMIT

By: Hernando J. Navas
P.E., Principal
Registered Engineer No. 50635
State of Florida

Scale: As Noted
File No. ML-1159

Dwg. No: C-11
OF: 30

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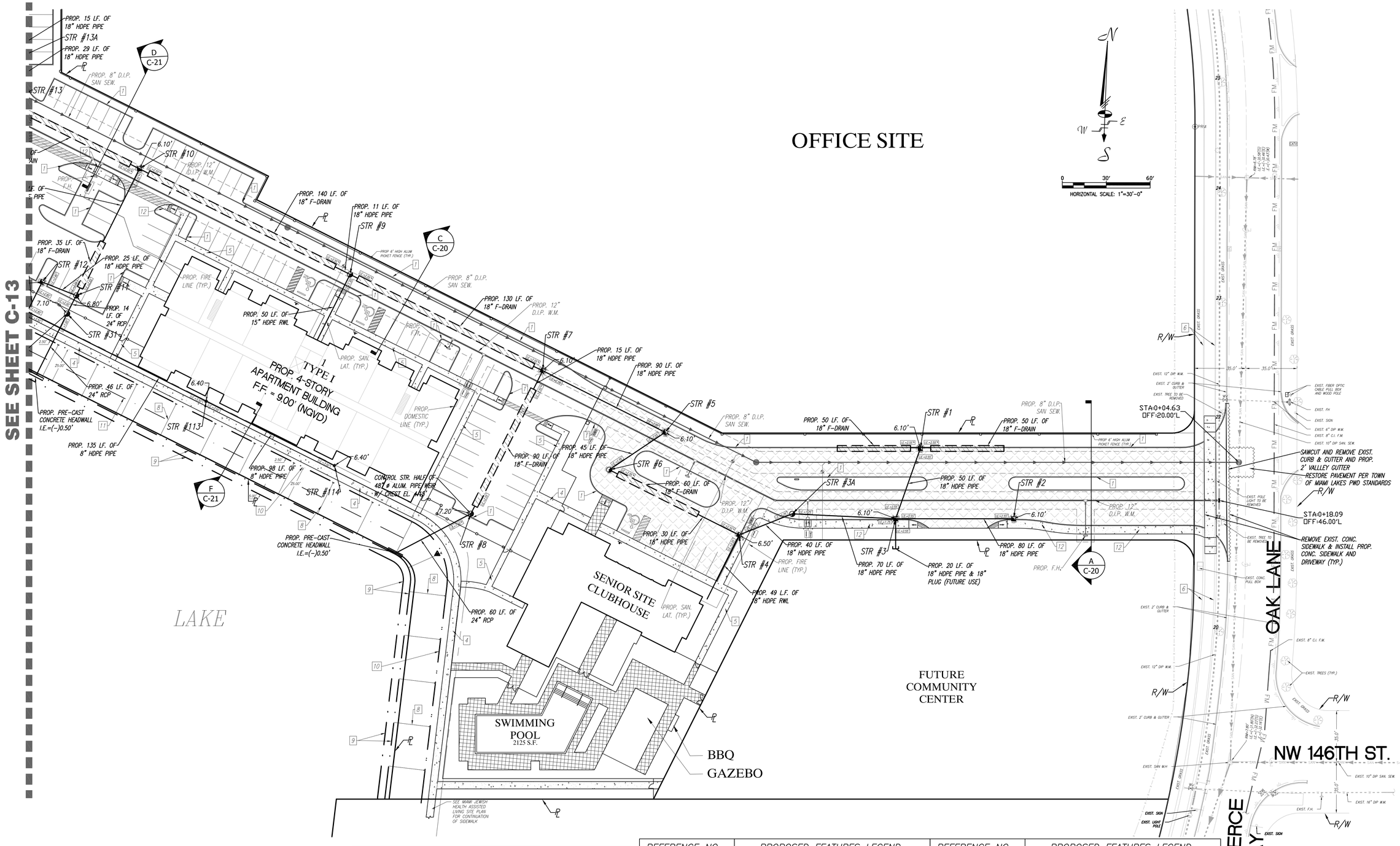

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REVISIONS

Date	Remarks	By

HERNANDO J. NAVAS LICENSE No. 50635 STATE OF FLORIDA PROFESSIONAL ENGINEER

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GOVERNORS SQUARE St. COMMUNITY

(AKA THE RESIDENCES AT GOVERNORS SQUARE)
PAVING AND DRAINAGE PLAN

TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: MT Date: 12/12/16
Checked By: HJN Date: 02/28/17
Order No. 206440 FB. Sketches & 00000 Pg.00
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By: Hernando J. Navas P.E., Principal
Registered Engineer No. 50635 State of Florida
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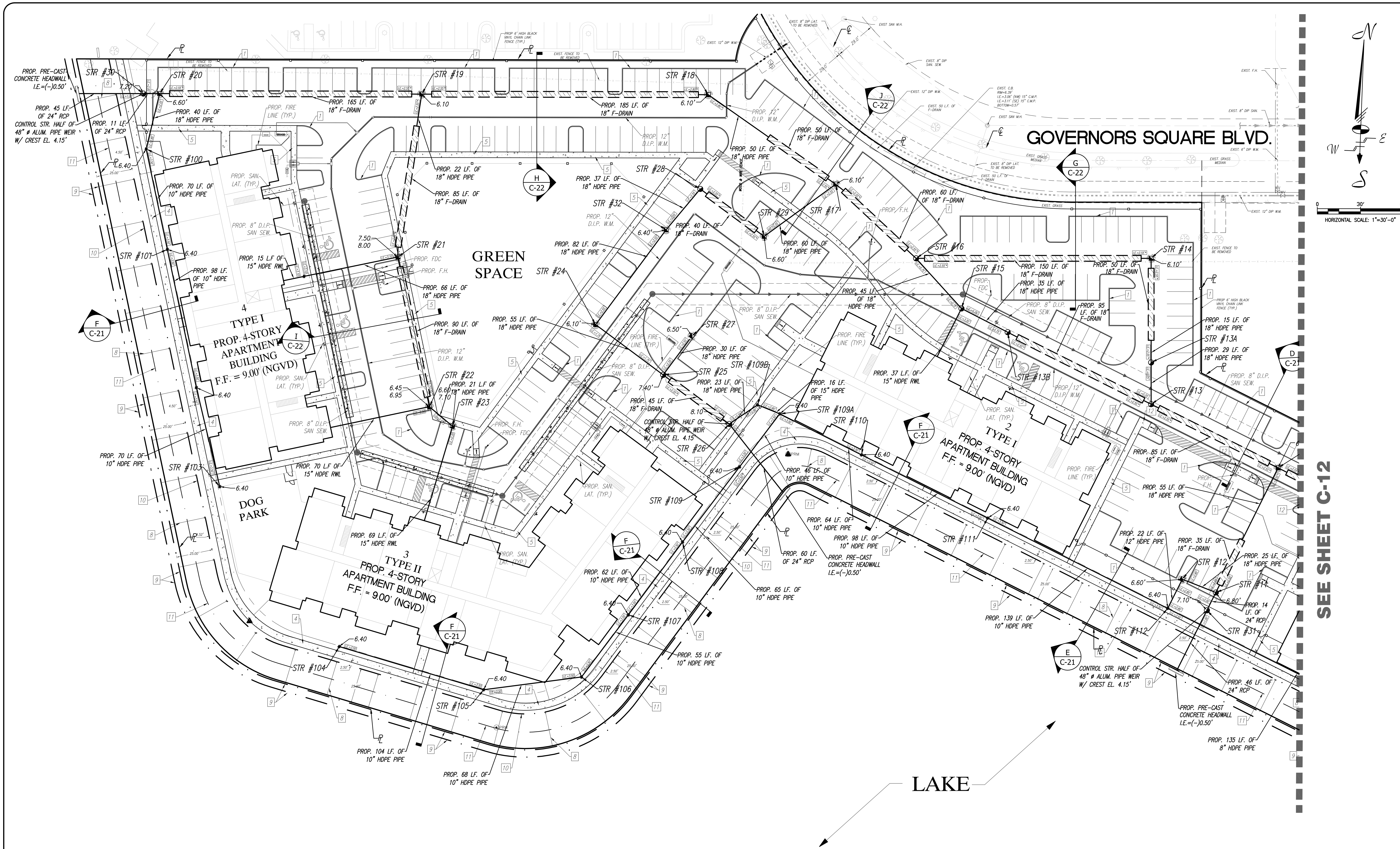
OF: 30



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File No. ML-1159

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OF: 30

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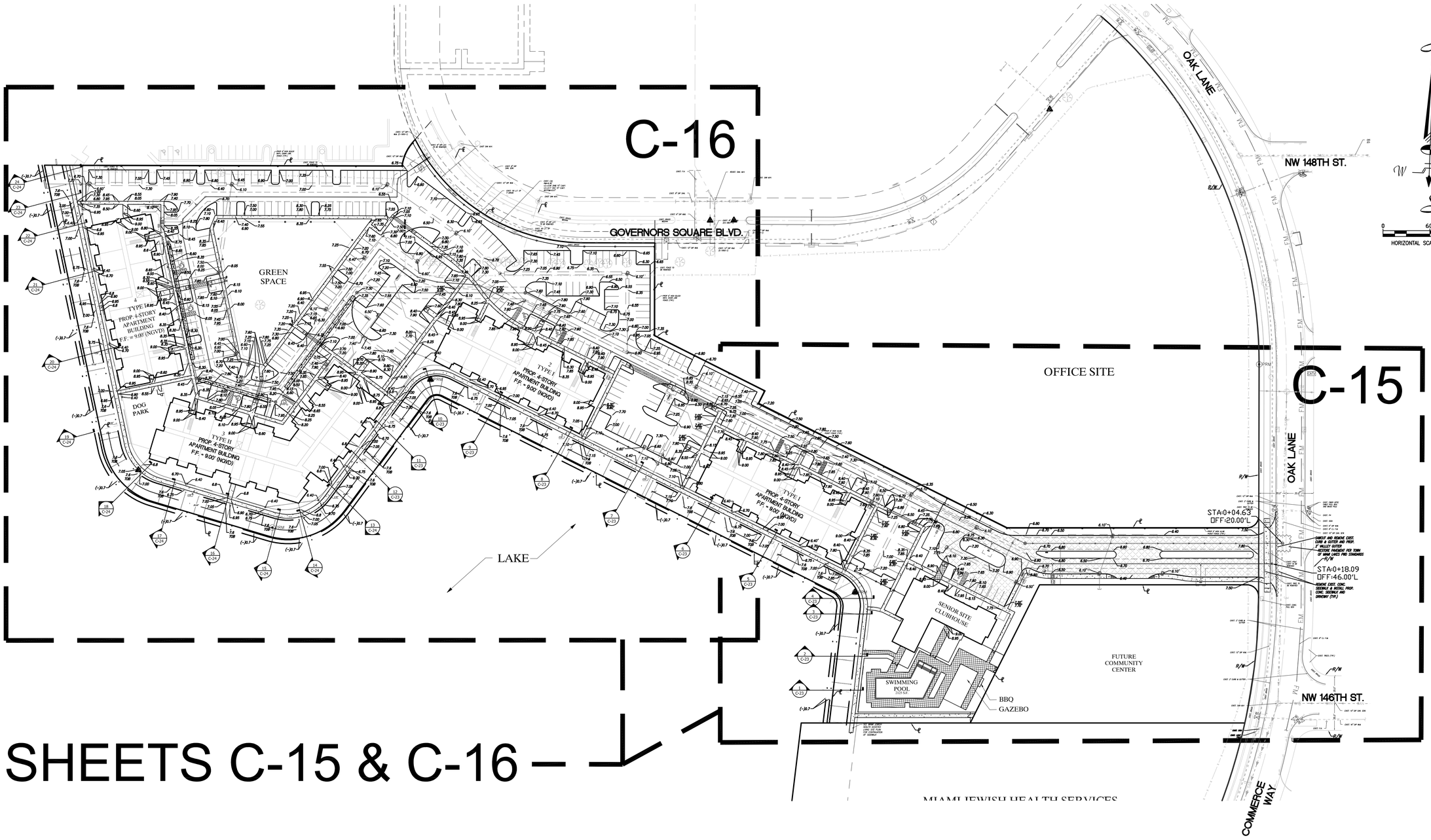

SHEETS C-15 & C-16

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- DENOTES PROPOSED CENTERLINE
- MEG DENOTES MATCH EXISTING GRADE
- DENOTES PROPOSED DRAINAGE MANHOLE
- DENOTES PROPOSED SAWCUT LINE
- DENOTES EXISTING PAVING
- DENOTES EXISTING PAVING
- A C-10 DENOTES CROSS-SECTION NAME; DENOTES PROPOSED CROSS-SECTION; DENOTES SHEET NUMBER
- DENOTES EXISTING PAVING

Schwebke Shiskin & Associates, Inc.

LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

REVISIONS

Date	Remarks	By

HERNANDO J. NAVAS LICENSE No. 50635 STATE OF FLORIDA PROFESSIONAL ENGINEER

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GOVERNORS SQUARE St. COMMUNITY

(AKA THE RESIDENCES AT GOVERNORS SQUARE)
GRADING PLAN

TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: MT Date: 12/12/16
Checked By: HJN Date: 02/28/17
Order No. 206440 FB. Sketches & 00000 Pg.00
Drawing Status: PERMIT

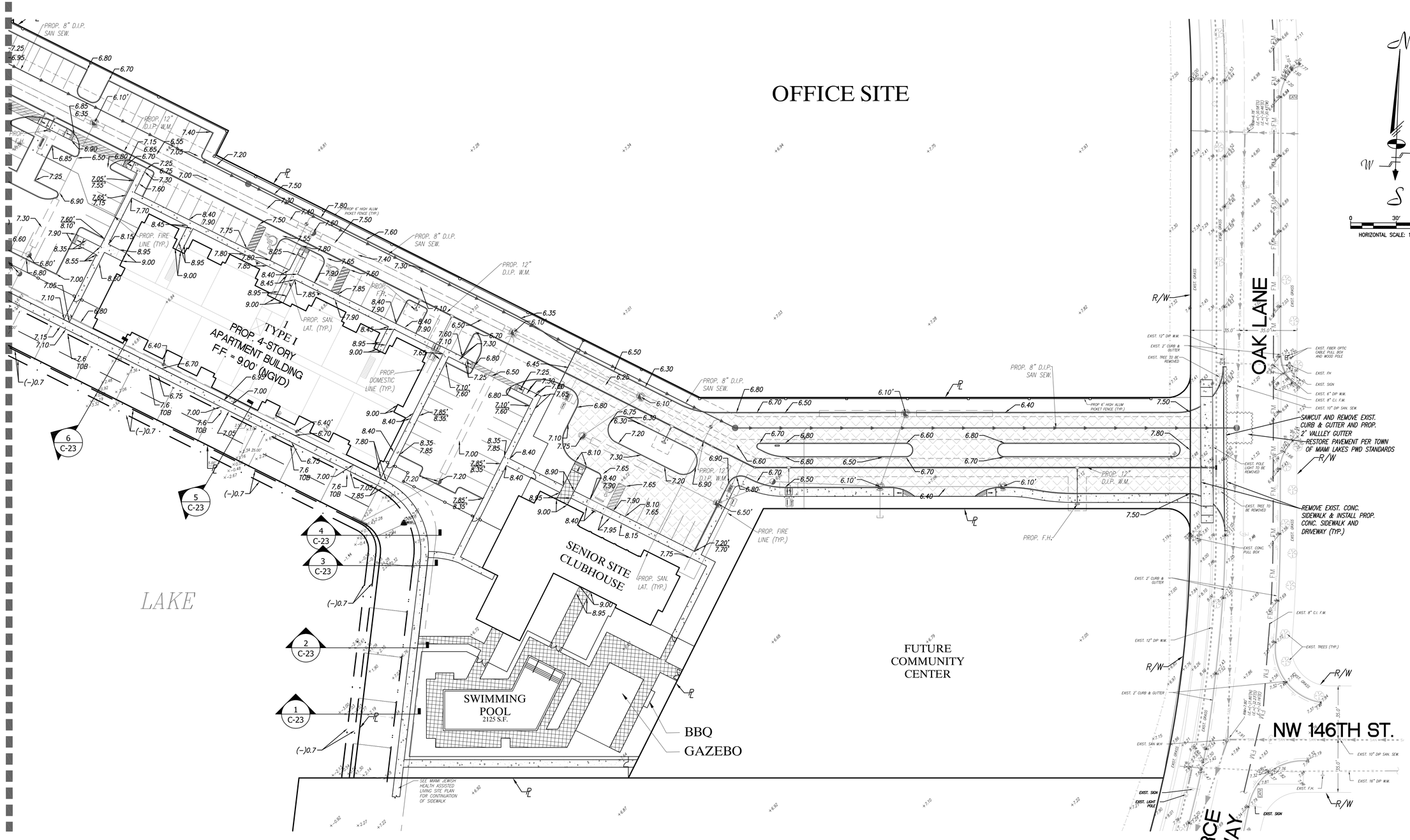
By: Hernando J. Navas
P.E., Principal
Registered Engineer No. 50635
State of Florida

Scale: As Noted

File No. ML-1159

Dwg. No: C-14
OF: 30

K:\22540\Graham Senior Village\PRD\DWG\PRD.dwg, 5/5/2017 9:40:51 AM, Bluebeam PDF.pc3



EXISTING FEATURES LEGEND:

- DENOTES EXISTING FIRE HYDRANT
- DENOTES EXISTING ELEVATIONS
- DENOTES WATER VALVE
- DENOTES PROPERTY LINE
- R/W DENOTES RIGHT OF WAY LINE
- DENOTES RIGHT OF WAY LINE
- DENOTES SANITARY SEWER CLEANOUT
- DENOTES SANITARY SEWER MANHOLE
- DENOTES FORCE MAIN MANHOLE
- DENOTES FORCE MAIN VALVE
- DENOTES F.P.L. ELECTRIC MANHOLE
- DENOTES F.P.L. TRANSFORMER PAD
- DENOTES CATCH BASIN
- DENOTES EXISTING TREE
- DENOTES EXISTING PAVING
- DENOTES IRRIGATION VALVE
- GP DENOTES GUARD POST
- DENOTES STORM SEWER MANHOLE
- DENOTES SIGN POST
- DENOTES ALUMINUM LIGHT POST

PROPOSED FEATURES LEGEND:

- 6.30' DENOTES PROPOSED ELEVATION
- DENOTES PROPOSED FRENCH DRAIN W/ INLET
- 3.0' DENOTES PROPOSED INVERT W/ BAFFLE
- 3.0' DENOTES PROPOSED INVERT ELEVATION
- DENOTES PROPOSED SLOPE TIPS
- DENOTES FLOW DIRECTION
- DENOTES PROPOSED RIDGE LINE
- DENOTES RAMP UP DIRECTION
- DENOTES PROPOSED SIGN
- DENOTES PROPOSED WHEEL STOP
- DENOTES PROPOSED CENTERLINE
- MEG DENOTES MATCH EXISTING GRADE
- DENOTES PROPOSED DRAINAGE MANHOLE
- DENOTES PROPOSED SAWCUT LINE
- DENOTES EXISTING PAVING
- DENOTES EXISTING PAVING
- DENOTES CROSS-SECTION NAME
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