



LEGEND:

- EXIST STORMWATER LINE
- PROP STORMWATER LINE
- EXIST. SANITARY LINE
- EXIST ELECTRICAL LINE
- SL ----- PROP SANITARY LATERAL
- W ----- PROP WATER LINE
- E ----- PROP ELECTRIC LINE
- PROP DETENTION POND LIMITS
- FIRE HYDRANT -500' RADIUS
- PROP FORCE MAIN CASING

UTILITY CROSSING SCHEDULE:

- X-ING 1**
TOP UTILITY: 18" HDPE STORM
B/P ELEV = 4.50
BOTTOM UTILITY: 6" DIP FIRE
T/P ELEV = 3.50
- X-ING 2**
TOP UTILITY: 6" PVC SAN
B/P ELEV = 6.14
MIDDLE UTILITY: 18" HDPE STORM
T/P ELEV = 5.14
B/P ELEV = 3.50
BOTTOM UTILITY: 6" DIP FIRE
T/P ELEV = 2.50
- X-ING 3**
TOP UTILITY: 3/4" PVC WATER
B/P ELEV = 5.00
BOTTOM UTILITY: 6" PVC SAN
T/P ELEV = 3.70
- X-ING 4**
TOP UTILITY: 3/4" PVC WATER
B/P ELEV = 6.14
BOTTOM UTILITY: 18" HDPE STORM
T/P ELEV = 5.14
- X-ING 5**
TOP UTILITY: 3/4" PVC WATER
B/P ELEV = 6.14
BOTTOM UTILITY: 6" DIP FIRE
T/P ELEV = 2.50
- X-ING 6**
TOP UTILITY: 18" HDPE STORM
B/P ELEV = 3.50
BOTTOM UTILITY: 6" DIP FIRE
T/P ELEV = 2.50
- X-ING 7**
TOP UTILITY: 3/4" PVC WATER
B/P ELEV = 6.14
BOTTOM UTILITY: 10" PVC STORM
T/P ELEV = 5.14
- X-ING 8**
TOP UTILITY: 18" HDPE STORM
B/P ELEV = 3.50
BOTTOM UTILITY: 6" DIP FIRE
T/P ELEV = 2.50
- X-ING 9**
TOP UTILITY: 3/4" PVC WATER
B/P ELEV = 7.00
BOTTOM UTILITY: 12" PVC STORM
T/P ELEV = 4.67
- X-ING 10**
TOP UTILITY: 3/4" PVC WATER
B/P ELEV = 7.00
BOTTOM UTILITY: 12" PVC STORM
T/P ELEV = 4.78
- X-ING 11**
TOP UTILITY: 2" FPL ELEC CONDUIT
B/P ELEV = 6.63
BOTTOM UTILITY: 18" HDPE STORM
T/P ELEV = 5.63
- X-ING 12**
TOP UTILITY: 18" HDPE STORM
B/P ELEV = 3.50
BOTTOM UTILITY: 6" DIP FIRE
T/P ELEV = 2.50

SANITARY CLEANOUT SCHEDULE:

- C/O-1**
RIM ELEV = AT GRADE
I.E. = 7.75
- C/O-2**
RIM ELEV = AT GRADE
I.E. = 7.75
- C/O-3**
RIM ELEV = AT GRADE
I.E. = 7.75
- C/O-4**
RIM ELEV = AT GRADE
I.E. = 7.65
- C/O-5**
RIM ELEV = AT GRADE
I.E. = 7.35
- C/O-6**
RIM ELEV = AT GRADE
I.E. = 7.00
- C/O-7**
RIM ELEV = AT GRADE
I.E. = 5.76
- C/O-8**
RIM ELEV = AT GRADE
I.E. = 5.72
- C/O-9**
RIM ELEV = AT GRADE
I.E. = 4.97
- C/O-10**
RIM ELEV = AT GRADE
I.E. = 4.22
- C/O-11**
RIM ELEV = AT GRADE
I.E. = 3.47

WATER DISTRIBUTION NOTES:

- CONTRACTOR SHALL FOLLOW GUIDELINES AND PROCEDURES OUTLINED BY UTILITY PROVIDER, AND HAVE UTILITY PROVIDER'S MANUAL ON-SITE AT ALL TIMES. THIS POLICY MANUAL SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS AS IT PERTAINS TO APPROVED MATERIALS, INSTALLATION METHODS, INSPECTION NOTIFICATION AND AS-BUILT/PROJECT CLOSEOUT REQUIREMENTS.
- ALL HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M - 294 LATEST REVISIONS. ALL PIPING TO BE NON-PERFORATED TUBING.
- ANY EXISTING WATER AND/OR SEWER CONNECTIONS TO THE SUBJECT LOTS MUST BE CUT AND CAPPED AT THE WATER MAIN IF A WATER SERVICE AND CUT OUT AND SLEEVED IF A SEWER LATERAL.

SANITARY SEWER NOTES:

- GENERAL:
 - DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
 - PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR TO TELEVIEW EXISTING SANITARY SEWER LINE FROM POINT OF CONNECTION THROUGH THE NEXT SEQUENTIAL DOWNSTREAM RUN OF PIPE. ADDITIONALLY, PRIOR TO COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL TELEVIEW THE NEWLY INSTALLED SANITARY SEWER MAIN TO ENSURE NO DIPS OR DEBRIS WITHIN LINE.
- MATERIALS:
 - ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.
 - ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.
 - ALL SANITARY CLEANOUTS WITHIN PAVEMENT SHALL HAVE A LID THAT IS H2O LOADING.
- INSTALLATION:
 - SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, AND THE UNI-BELL PLASTICS PIPE ASSOCIATION'S "RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE".
 - BEDDING AND INITIAL BACKFILL (12 INCHES) OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEAK ROCK OR 3/4" WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" IN DIAMETER.
- PIPE AND FITTINGS:
 - CLEANOUTS SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM CLEAN SUBGRADE PROVIDING UNIFORM BEARINGS UNDER THE BASE.
 - ALL OPENINGS AND JOINTS SHALL BE SEALED WATER-TIGHT.
- SERVICE:
 - MINIMUM SLOPE OF ALL SERVICE LINES SHALL BE 1.00%.
 - EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED PLUG.
 - CONNECTION OF SERVICES TO BUILDING'S PLUMBING SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
- TESTING:
 - AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.
 - AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.
 - SEWER PIPE LEAKAGE ALLOWABLE SHALL NOT EXCEED 150 GALLONS PER DAY PER INCH DIAMETER PER MILE IN A TWO HOUR TEST PERIOD FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED.
 - CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO THE CERTIFICATION TO ANY AGENCY.
 - GENERAL CONTRACTOR SHALL EMPLOY AN INDEPENDENT INSPECTOR FOR 100% CONTINUOUS INSPECTION OF THE BEDDING AND BACKFILL OPERATION. COMPACTION TESTS SHALL BE TAKEN AT THE BOTTOM OF TRENCH AND AT EACH LIFT OF BACKFILL.
 - GENERAL CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR AS-BUILT TOP OF PIPE ELEVATIONS TAKEN WHEN BEDDING OPERATION IS 75% COMPLETE. THESE ELEVATIONS SHALL BE TAKEN AT POINTS OF CONNECTION, CHANGES IN DIRECTION AND AT MINIMUM 20' INTERVALS ALONG THE LENGTH OF THE PIPE. THESE ELEVATIONS SHALL BE RECORDED AS AS-BUILT DIMENSIONS ON SITE PLAN REVIEW BY PROJECT ENGINEER.
 - ALL SANITARY LINES ARE TO BE FLUSHED PRIOR TO CONTRACTOR TURNOVER OF THE FACILITY.

NOTE:

- APPROXIMATE WATER AND SEWER DEMAND (GPD) 3,556

BOHLER ENGINEERING
 SITE CIVIL AND CONSULTING ENGINEERING
 LAND SURVEYING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 TRANSPORTATION SERVICES
 TRAFFIC ENGINEERING SERVICES
 PROJECT MANAGEMENT
 CONSTRUCTION ADMINISTRATION
 CONSTRUCTION MANAGEMENT

REVISIONS

REV	DATE	COMMENT	BY
1	12-12-18	CITY DRC REVIEW COMMENTS	JAL
2	03-05-19	CITY DRC REVIEW COMMENTS	DHC
3	08-14-19	BROWARD COUNTY SURFACE WATER MANAGEMENT COMMENTS	SMM
4	08-14-19	BROWARD COUNTY EPGM COMMENTS	SMM
5	08-14-19	FOOT ACCESS COMMENTS	SMM
6	08-14-19	FOOT DRAINAGE COMMENTS	SMM
7	10-09-19	BROWARD COUNTY AND FOOT COMMENTS	SMM

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
 It's fast. It's free. It's the law.
 www.callsunshine.com

NOT APPROVED FOR CONSTRUCTION

PROJECT No.: FLB160027
 DRAWN BY: DJE
 CHECKED BY: CRC
 DATE: 10/09/19
 SCALE: 1" = 30'
 CADD: UTP-2

CONSTRUCTION DOCUMENTS
 FOR
Wawa
 LOCATION OF SITE
 NWC W ATLANTIC BLVD & N ANDREWS AVE.
 POMPAHO BEACH, FL 33069
 BROWARD COUNTY

BOHLER ENGINEERING
 2255 GLADES ROAD, SUITE 305E
 BOCA RATON, FLORIDA 33431
 Phone: (561) 571-0280
 Fax: (561) 571-0281
 FLORIDA BUSINESS GIC# 0547476-00000
 LANDSCAPE ARCHITECT BUSINESS LIC# LC20000051

CHRISTOPHER R. CAPELLINI
 LICENSE
 No. 82025
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 08/14/19

SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C-501

REV 0

CHRISTOPHER R. CAPELLINI
 LICENSE
 No. 82025
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

CHRISTOPHER R. CAPELLINI, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE No. 82025
 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CHRISTOPHER R. CAPELLINI, P.E. ON 08/14/2019 USING SHA-1 AUTHENTICATION CODE.
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.