

SEWER NOTES

SANITARY SEWER NOTES:

COORDINATE ALL SANITARY SEWER CONSTRUCTION WITH CITY OF POMPANO BEACH ENGINEERING SUPPORT SERVICES DIVISION (561) 684-4012.

DISTANCE AND LENGTHS SHOWN ON PLANS REFERENCE THE CENTER OF STRUCTURES.

A. 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. (24" SHALL BE DR-25).

DUCTILE IRON PIPE (DIP) SHALL BE CEMENT OR POLYLINE D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS. (24" SHALL BE DR-25).

ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.

B. 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'.

D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-10 OR LATEST REVISION.

BEDDING AND INITIAL BACKFILL (12 INCHES) OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4" WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF CITY OF POMPANO BEACH. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" IN DIAMETER.

MINIMUM SLOPE OF ALL SERVICE LINES SHALL BE AS INDICATED IN THE FLORIDA BUILDING CODE. SERVICE LATERALS SHALL TERMINATE AT A DEPTH 30" BELOW FINISHED GRADE OR AS INDICATED ON PLUMBING PLAN.

EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED PLUG.

THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x4" TREATED STAKE PAINTED RED, EXTENDING 18"(MIN) ABOVE GRADE.

CONTRACTOR SHALL ROUGH IN RISER TO 1 FOOT ABOVE FINISHED GRADE AND PLUG. AT PROJECT COMPLETION, CUT BACK TO FINISHED GRADE.

CONNECTION OF SERVICES TO BUILDING'S PLUMBING SHALL BE COORDINATED WITH THE CITY'S BUILDING AND ZONING DEPARTMENT.

C. 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.

MANHOLE LEAKAGE TEST SHALL NOT EXCEED FOUR GALLONS PER DAY PER UNIT. NO VISIBLE LEAKAGE ALLOWED.

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 AND ALL LINES SHALL BE T.V. INSPECTED.

SANITARY SEWER SHALL BE TELEVISED AND LAMPED AT DEVELOPER'S EXPENSE, PRIOR TO FINAL ACCEPTANCE. OWNER / CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO CERTIFICATION TO ANY AGENCY.

VISIBLE INFILTRATION LEAKAGE INTO MANHOLES AND SEWER PIPE SHALL NOT BE PERMITTED.

GENERAL CONDITIONS

THIS PLAN IS NOT A SURVEY AND SHALL NOT BE USED FOR PLATTING, REPLATTING, OR ESTABLISHMENT OF LEGAL BOUNDARIES.

THIS PLAN IS A GRAPHICAL REPRESENTATION AND IS SUBJECT TO DISTORTION UPON PRINTING, COPYING, AND REPRODUCTION. THEREFORE, DISTANCES SHOULD NOT BE SCALED OFF THIS PLAN. WHEN PROVIDED, DIMENSIONS AND LABELS OFFER A MORE ACCURATE REPRESENTATION OF SIZE AND DISTANCE.

FOR EXACT LOCATIONS, DIMENSIONS, ELEVATIONS AND ESTABLISHED OF LEGAL PROPERTY BOUNDARIES, A SURVEYOR REGISTERED IN THE STATE OF FLORIDA MUST BE CONSULTED.

THE ENGINEER OF RECORD SHALL BE NOTIFIED, IMMEDIATELY, IF ADDITIONAL ITEMS ARE LOCATED WHICH NOT APPEAR ON THIS PLAN. ALSO, THE ENGINEER OF RECORD SHALL BE NOTIFIED, IMMEDIATELY, IF ITEMS SHOWN ON THIS PLAN ARE FOUND TO BE OF A DIFFERENT SIZE OR IN A DIFFERENT LOCATION IN THE FIELD.

THE LOCATION OF THE EXISTING UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION OF CONFLICT. THE CONTRACTOR WILL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION.

CONTRACTOR SHALL READ AND FOLLOW ANY LOCAL SPECIFICATIONS PRIOR TO STARTING THE WORK.

CIVIL DESIGN CRITERIA

CODES USED:

COMPONENTS FOR THIS PROJECT HAVE BEEN DESIGNED IN COMPLIANCE WITH S.F.W.M.D.C. (LATEST EDITION) STANDARDS.

DRAINAGE DESIGN CRITERIA

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|-------------------------------|------------------------------------|
| 1. DESIGN STORM | = 10 YEARS FREQUENCY |
| 2. TIME OF CONCENTRATION | = 10 MIN |
| 3. INTENSITY (I) | = 7.5 IN/HR |
| 4. RUNOFF COEFFICIENT (C) | = 0.90 IMPERVIOUS |
| 5. RUNOFF COEFFICIENT (C) | = 0.30 PERVIOUS |
| 6. HYDRAULIC CONDUCTIVITY (K) | = 0.000320 CFS/FT ³ /FT |

CONSTRUCTION SEQUENCE NOTES

CLEAR, REMOVE, AND PROPERLY DISPOSE OF ITEMS AS INDICATED IN THE PLANS.

INSTALL AND CONSTRUCT IMPROVEMENTS AS INDICATED IN THE PLANS.

PERMANENTLY STABILIZE DISTURBED AREAS AS INDICATED IN THE PLANS UPON COMPLETION OF CONSTRUCTION ACTIVITY.

APPLICABLE CODES

WHERE A CONFLICT EXISTS BETWEEN THESE GENERAL SPECIFICATIONS AND THE CONTRACT DOCUMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN.

ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NATIONAL AMERICAN VERTICAL DATUM OF 1988 (NAVD88), UNLESS OTHERWISE NOTED.

PROJECT CLOSE-OUT

CLEANING UP:

DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEANUP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEPED BROOM CLEAN.

THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.

PROJECT RECORD DOCUMENTS.

DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.

UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD (EOR) ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS, THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.

ALL AS-BUILT INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

EARTHWORK AND SITE PREPARATION

ALL UNSUITABLE MATERIAL SHALL BE REMOVED UNDER ALL NEW DRAINAGE AND UTILITY LINES UNDER ALL NEW EXFILTRATION TRENCH, AND UNDER ALL NEW DRAINAGE AND UTILITY STRUCTURES.

STRUCTURAL FILL SHOULD CONSIST OF IGNORING, NON-PLASTIC, GRANULAR SOILS CONTAINING LESS THAN 10 PERCENT MATERIAL PASSING THE #200 SIEVE (GP, GW, SP, SW, GW-GM, GP-GM, SW-SM OR SP-SM OR A CRUSHED LIME ROCK WITH A 3" MAX. PARTICLE SIZE) BACK FILL MATERIAL PLACED IN LIFTS NOT EXCEED TWELVE (12) INCHES IN THICKNESS, AND COMPACTED TO A MINIMUM DENSITY OF 98% MODIFIED PROCTOR TEST.

ANY DEEP EXCAVATIONS OR TRENCHES REQUIRED FOR THIS PROJECT SHOULD BE ADEQUATELY SHORED TO PREVENT SANDY ON-SITE SOILS FROM COLLAPSING INTO THE EXCAVATIONS. ALL APPLICABLE OSHA STANDARDS AND REGULATIONS SHOULD BE ADHERED TO FOR THE SAFETY OF PROJECT CONSTRUCTION PERSONNEL. CONTRACTOR MUST ADHERE TO REQUIREMENTS OF FLORIDA TRENCH SAFETY ACT.

GRADING NOTES

UPON DISCOVERY OF A CONFLICT BETWEEN ELEVATIONS OR WHEN A SPECIFIED ELEVATION IS IN DOUBT, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE PROPOSED WORK DESCRIBED IN THE PLANS.

PAVING AND GRADING NOTES

INSPECTIONS

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS, WHERE APPLICABLE:

- EARTHWORK
- STORM DRAINAGE SYSTEM
- CONCRETE

DURING CONSTRUCTION, EOR WILL INSPECT THE FOLLOWING:

- INSTALLATION OF ALL UNDERGROUND DRAINAGE FACILITIES BEFORE BACKFILLING.
- BACKFILLING OF MAIN TRENCHES.

UTILITIES

FLORIDA POWER AND LIGHT:

CONTRACTOR SHALL USE EXTREME CAUTION WORKING UNDER, OVER AND AROUND EXISTING OVERHEAD AND/OR UNDERGROUND ELECTRIC LINES.

CONTRACTOR SHALL INFORM TO THE ENGINEER OF RECORD PRIOR TO CROSSING ANY UNDERGROUND OR OVERHEAD ELECTRIC LINES TO VERIFY VOLTAGE AND LOCATION OF EXISTING LINES.

FUEL LINES (IF APPLICABLE):

CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF EXISTING FUEL LINES. CONTRACTOR IS TO CONFIRM FUEL LINES DEPTHS ARE SUFFICIENT PRIOR TO OPERATING HEAVY MACHINERY OVER TOP.

PRE-CONSTRUCTION RESPONSIBILITIES

UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL ARRANGE A PRE CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.

THE CONTRACTOR SHALL OBTAIN A SUNSHINE (ONE CALL) CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.

CONTRACTOR SHALL USE EXTREME CAUTION WORKING UNDER, OVER AND AROUND EXISTING OVERHEAD AND/OR UNDERGROUND LINES PARTICULARLY ELECTRIC AND FUEL LINES.

TEMPORARY FACILITIES

TEMPORARY FACILITIES:

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.

TRAFFIC REGULATIONS:

ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY OF POMPANO BEACH CONSTRUCTION DIVISION, AND BROWARD COUNTY.

STORM DRAINAGE

GENERAL:

CATCH BASIN AND RIM ELEVATIONS AS SHOWN ON PLANS MAY BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.

DISTANCES AND LENGTHS SHOWN ON PLANS ARE REFERENCED TO THE CENTER OF STRUCTURES.

INSTALLATIONS:

PIPE SHALL BE PLACED ON A MINIMUM OF 8" STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION AND OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO A UNIFORM GRADE AND LINE.

BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL, WELL TAMPED IN LAYERS NOT TO EXCEED 6 INCHES TO A HEIGHT OF 12 INCHES ABOVE PIPE.

CONTRACTOR NOTES

MONITOR QUALITY CONTROL SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS, AND WORKMANSHIP, IN ORDER TO PRODUCE THE SPECIFIED QUALITY OF WORK.

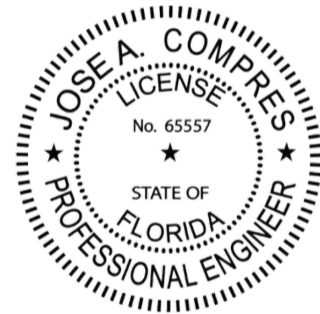
COMPLY WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS AND SEQUENCE. ANY CONFLICT WITH INSTRUCTIONS AND CONTRACT DOCUMENTS NOTIFY THE OWNER AND ENGINEER.

IF MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM OWNER BEFORE PROCEEDING.

COMPLY WITH SPECIFIED STANDARDS AS MINIMUM REQUIREMENTS FOR THE WORK EXCEPT WHEN MORE STRINGENT TOLERANCES, CODES, OR SPECIFIED REQUIREMENTS INDICATE HIGHER STANDARDS OR MORE PRECISE WORKMANSHIP.

ENSURE WORK IS PERFORMED BY PERSONS WHO ARE QUALIFIED TO PRODUCE THE SPECIFIED LEVEL OF WORKMANSHIP.

COMPLETELY REMOVE TEMPORARY MATERIALS AND/OR EQUIPMENT WHEN THEY ARE NO LONGER REQUIRED.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSE A. COMPRES ON AUGUST 29TH, 2024. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Jose Compres

Digitally signed by Jose Compres Date: 2024.08.29 16:38:48 -04'00'

JOSE A COMPRES, P.E.
FLORIDA P.E. LIC. # 65557

CONEMCO ENGINEERING, INC.

PROJECT NAME / ADDRESS:
324 HAUS NEW BUILDING - CIVIL PLANS
324 NW 6TH ST. POMPANO BEACH, FL 33060

CLIENT/OWNER:
MR. RICARDO LARA

REVISIONS	DATE

DATE:	8/29/2024
SCALE:	AS SHOWN
DRAWN:	FP
CHECKED:	PS
APPVD:	JC
PROJECT ID:	FPV-C231001
CONTRACT NO:	-

SHEET NAME:

SEWER AND PAVING
& GRADING NOTES

DRAWING NO.

C-101

Sheet No.
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