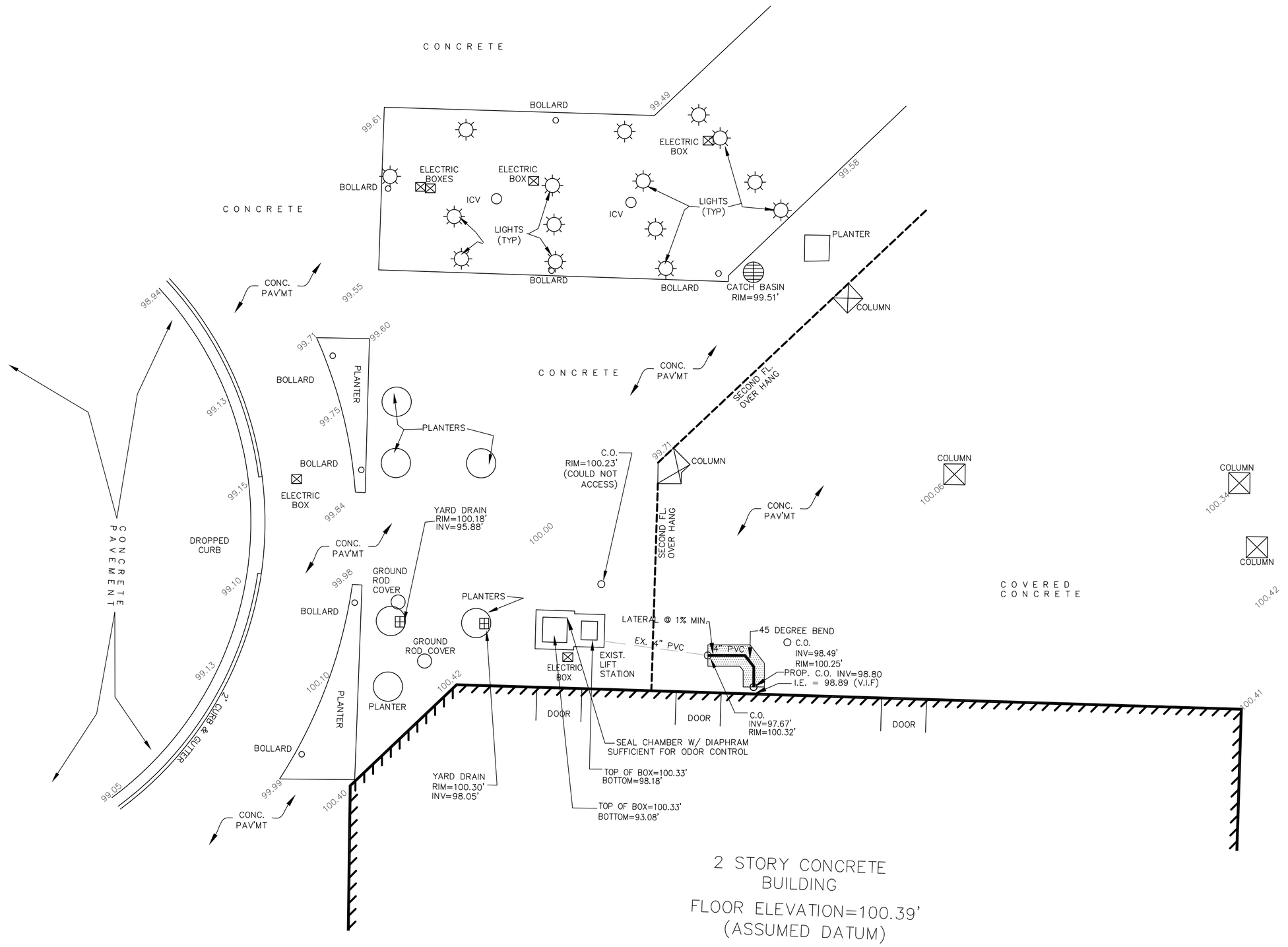


Call 48 hours before you dig in Florida
It's the Law!
1-800-432-4770
FPAL (305) 347-3900
Sunshine State One Call of Florida, Inc.

GRAVITY SEWER COLLECTION SYSTEM:

A. GENERAL:

1. DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILES ARE REFERENCED TO THE CENTER OF STRUCTURES.
2. MANHOLE RIM ELEVATIONS AS SHOWN ON PLANS MAY BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.

B. MATERIALS:

1. ALL SEWER PIPE AND FITTINGS SHALL BE DUCTILE IRON PIPE WITH EPOXY COATING, (MIN. PVC SDR35 PIPE CONFORMING TO ANSI/AWWA CLASS 52), AS INDICATED ON THE DRAWINGS. STANDARD C900–97, CLASS 150. WITH PUSH–ON RUBBER GASKET JOINTS OR
2. MANHOLES SHALL BE PRECAST PER ASTM C 478 WITH 4,000 PSI CONCRETE AND GRADE 60 STEEL. MONOLITHICALLY POURED BASES ONLY.
3. MANHOLES ARE TO BE SEALED WITH ANTI–HYDRO CEMENT OR APPROVED EQUAL – NO MOULDING PLASTER.

C. INSTALLATION:

1. PVC SEWER PIPE SHALL BE LAID IN ACCORDANCE WITH ASTM D 2321 AND THE UNI–BELL PLASTIC PIPE ASSOCIATION'S DUCTILE IRON PIPE SHALL BE INSTALLED IN "RECOMMENDED PRACTICE FOR THE
2. ACCORDANCE WITH ANSI/AWWA C600–05 INSTALLATION OF PVC SEWER PIPE." OR LATEST REVISION.
3. ASBESTOS CEMENT MANHOLE COUPLINGS SHALL BE GROUTED IN PLACE AT EACH PIPE CONNECTION INTO A MANHOLE WALL.
4. MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM SUBGRADE PROVIDING UNIFORM BEARING UNDER THE BASE.
5. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT.
6. THE ENTIRE INSIDE AND OUTSIDE OF THE MANHOLES SHALL BE PAINTED WITH TWO COATS: FIRST COAT RED, SECOND COAT BLACK (8 MILS EACH) OF KOPPERS 300–M BITUMASTIC PAINT OR ENGINEER'S APPROVED EQUAL.
7. EXISTING SEWER SYSTEM MUST REMAIN SEPERATE FROM NEW SEWER SYSTEM WITH A WING–NUT TYPE MECHANICAL PLUG UNTIL CERTIFICATION.

D. TESTING:

1. 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.
2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.
3. MANHOLE LEAKAGE TEST SHALL NOT EXCEED FOUR GALLONS PER DAY PER UNIT. NO VISIBLE LEAKAGE ALLOWED.
4. 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.

ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY AND CONFORMANCE TO THE PLAN DETAILS.

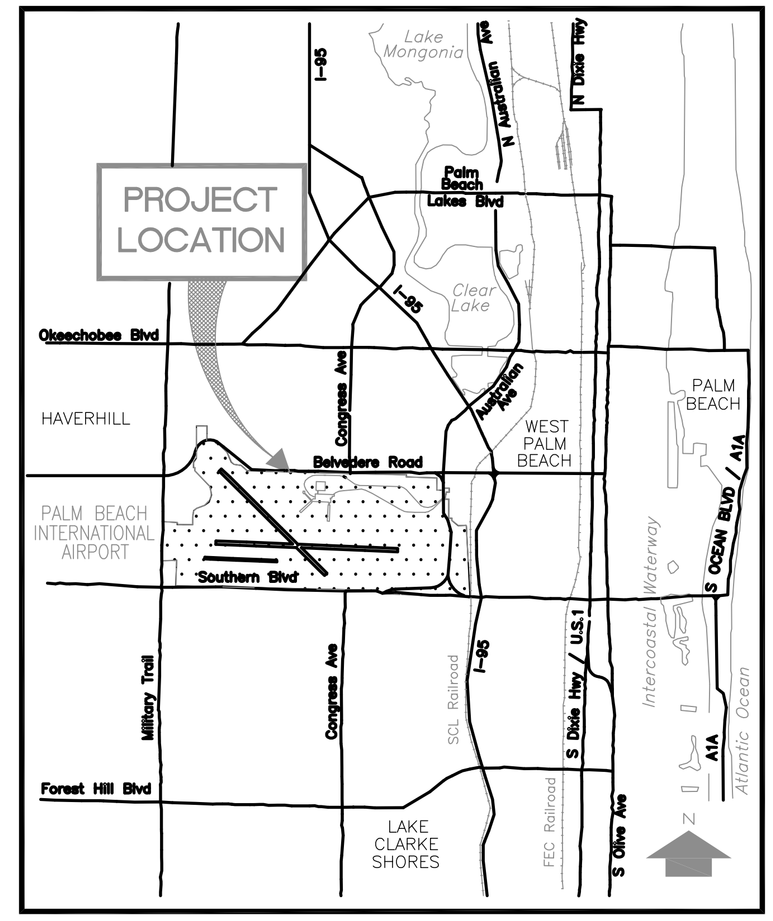
1. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE RECORD DRAWINGS, "AS–BUILTS", ON FULL SIZE, 24" X 36" REPRODUCIBLE MATERIAL. WHERE WATER AND SEWER INFORMATION ARE ON THE SAME PAGE THE WATER LINE SHALL BE AS–BUILT BY STATION AND OFFSET UTILIZING THE SANITARY SEWER SYSTEM AS THE BASE LINE. IF IT I S NOT PRACTICAL TO UTILIZE THE SEWER SYSTEM AS A BASE LINE THEN THE SURVEYOR SHALL CONTACT THE ENGINEER OF RECORD SO THAT A SUBSTITUTE BASELINE MAY BE CHOSEN. ALL RECORD DRAWING, "AS–BUILT", INFORMATION SHALL BE PUT ON THE LATEST ENGINEERING DRAWINGS. ONE (1) SET OF REPRODUCIBLE RECORD DRAWINGS, "AS–BUILTS", SHALL BE SUBMITTED ALONG WITH EIGHT (8) SETS OF BLUE OR BLACKLINE DRAWINGS. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR. ADDITIONALLY, AN ELECTRONIC COPY OF THESE RECORD DRAWINGS, "AS–BUILTS", SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN AUTOCADD, VERSION 14.0.
2. THE FOLLOWING SUBMITTLAS TO THE PALM BEACH COUNTY AIRPORTS ARE REQUIRED AFTER THE PROJECT IS COMPLETED AND APPROVED BY THE PALM BEACH COUNTY AIRPORTS ENGINEER:
   A. TWO (2) COMPLETE "AS–BUILT" SETS OF BLUEPRINTS SIGNED AND SEALED BY A REGISTERED SURVEYOR AND ENGINEER.
   B. ONE (1) COPMLETE "AS–BUILT" SET OF MYLAR. C. ONE (1) "AS–BUILT" CD IN AUTOCAD.

NOTE TO CONTRACTOR:

DEPT. OF HOMELAND DEFENSE AND ENOLA CONTRACTING ARE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS FOR THE SANITARY LATERAL CONNECTION.

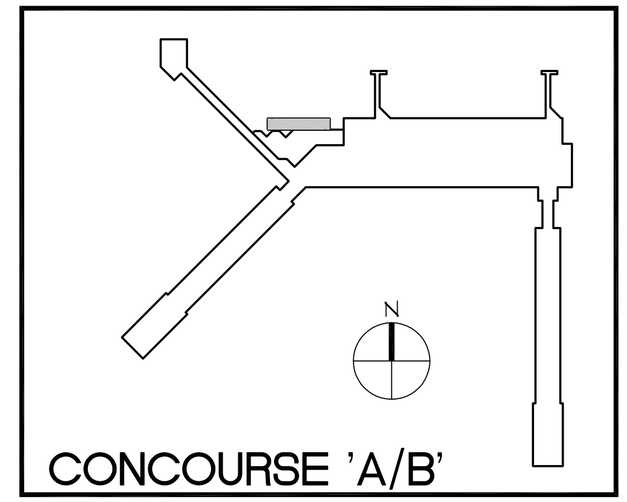
NOTES

1. ADD 2 COATS OF KOPPERS BITUMASTIC 300M AT 8–10 MILS PER COAT TO WETWELL AND VALVE VAULT PIPING
2. ADD A FLUSH MOUNTED EDPM GASKET AROUND PERIMETER OF HATCH FRAME TO PREVENT RELEASE OF H2S GAS AND ODORS
3. APPLY A FIELD CORROSION BARRIER SYSTEM, SUCH AS MADEWELL CORP.'S MAINSTAY SYSTEM, TO THE INTERIOR OF THE EXISTING WETWELL AND VALVE VAULT TO PREVENT FUTURE CORROSION OF CONCRETE
4. BACKFILL LATERAL WITH ONLY CLEAN, SUITABLE FILL MEETING MINIMUM 90% DENSITY. PROPOSED CONC. TO BE PLACED FLUSH WITH EXISITNG CONCRETE AND MATCHING THE ADJACENT SURFACE TEXTURE. THE PROPOSED CONCRETE SHALL BE MINIMUM 3,000 PSI, 6" THICK, REINFORCED WITH 6X6 #9 WWF, CONTROL JOINTS EVERY 20' MAXIMUM AND EXPANSION JOINTS AT THE PERIMETER.



LOCATION MAP

N.T.S.



KEY PLAN

N.T.S.

LEGEND

SAN	EXISTING SANITARY SEWER
	PROP. SANITARY SEWER LATERAL
	PROP. CLEANOUT (C.O.)
WM	EXISTING WATERMAIN
WM	EXIST. WATER METER

SCALE: 1"=10'

KS 10/14/08					
DESIGNED BY DATE					
KS 10/14/08					
DRAWN BY DATE					
KS 10/14/08					
CHECKED BY DATE					
RR 10/14/08					
APPROVED BY DATE	No.	DATE	BY	APP.	REVISIONS

PALM BEACH INTERNATIONAL AIRPORT

PALM BEACH COUNTY, FLORIDA

ROSS ENGINEERING, INC.
3325 SOUTH UNIVERSITY DRIVE, SUITE 111
DAVIE, FLORIDA 33328
(954)318–0624 (954)358–0190 FAX
CERTIFICATE OF AUTHORIZATION No. 9808

ROBERT J. ROSS, P.E.
FLORIDA P.E. No. 59485
DATE: 10/21/2008

SEWER LATERAL LAYOUT PLAN

SCALE: 1:10 | SHEET No. C-1