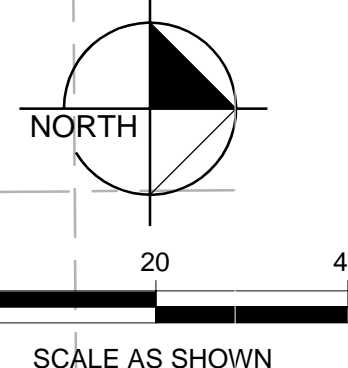
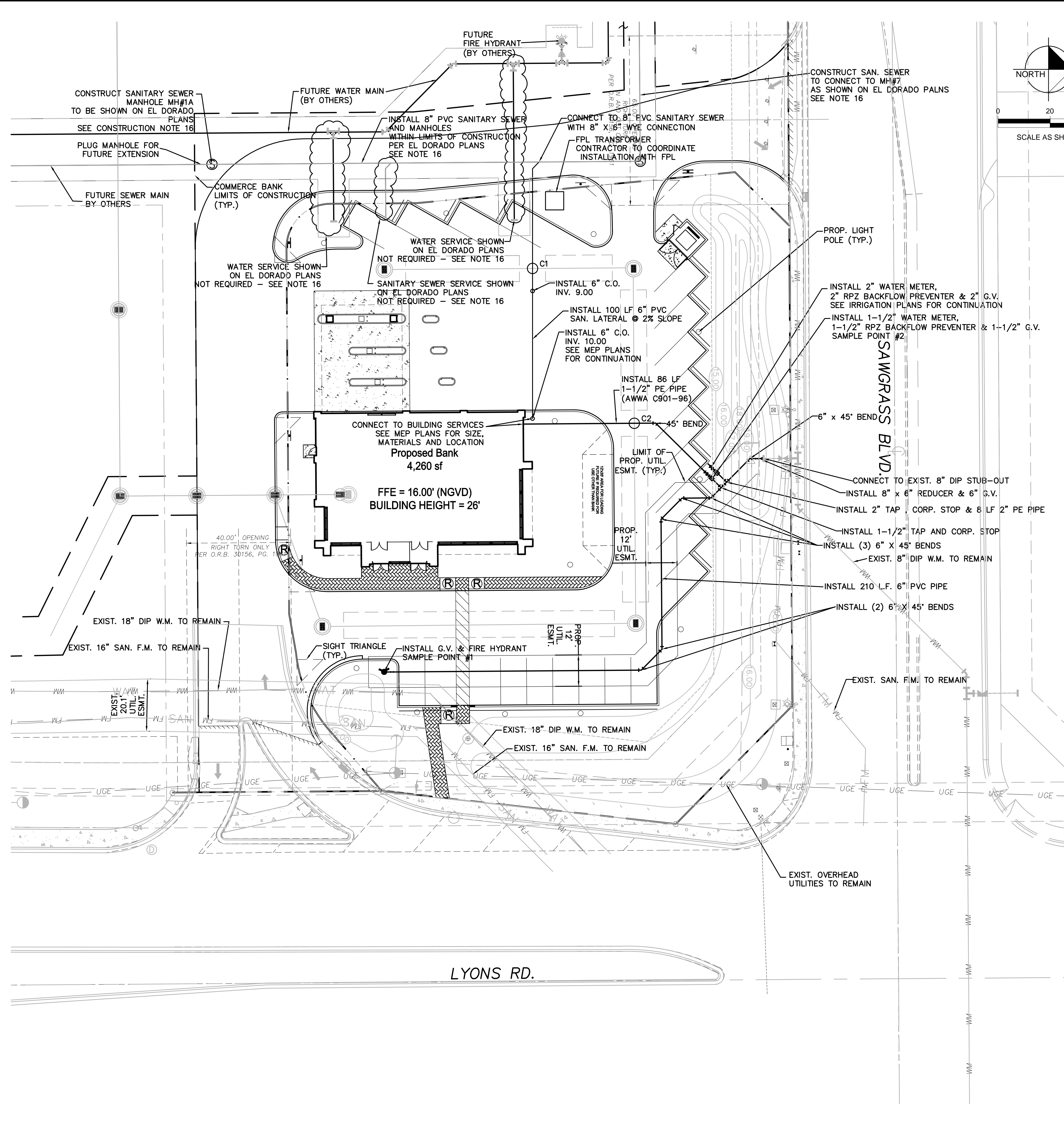
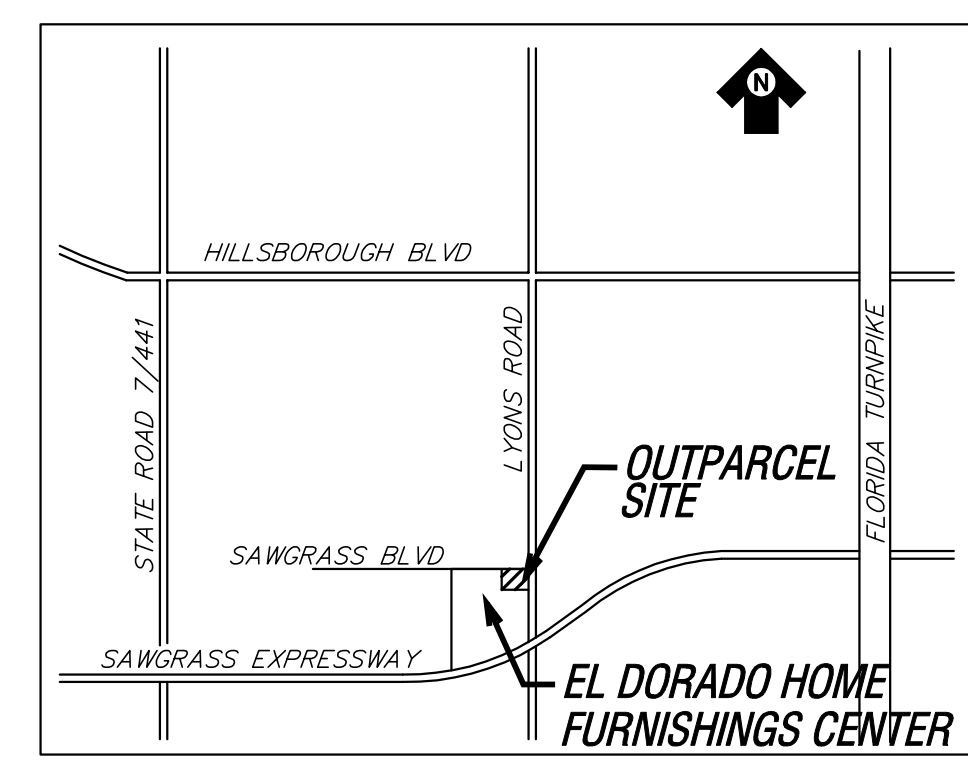


Drawing name: H:\042_jobs\042701\051-Sawgrass Pkly & Lyons Rd--(Coco Crk)\CADD\CIVIL\C10\CONSTR\C10-UTILITY.dwg C10 Sep 20, 2006 1:14pm by: marlo.rivera
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LOCATION MAP
N.T.S

UTILITY CROSSING SCHEDULE - COMMERCE BANK COCONUT CREEK			
CROSS NO.	PAVEMENT ELEV.	UPPER PIPE INFO.	LOWER PIPE INFO.
C1	14.92	15" HDPE DRAINAGE PIPE INV. ELEV. 10.83	6" PVC SAN. LATERAL T.O.P. ELEV. 9.36
C2	15.35	1-1/2" P.E. WATER SERVICE INV. EL. 12.73	15" HDPE DRAINAGE PIPE T.O.P. ELEV. 12.08

- CITY OF COCONUT CREEK NOTES:**
- CONTRACTOR TO ADD BENDS AS NECESSARY TO MAINTAIN CLEARANCE FROM EXISTING UTILITIES AFTER APPROVAL OF CITY ENGINEER.
 - CONTRACTOR TO VERIFY EXISTING MATERIALS, SIZE, AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - ALL WATER MAIN PIPE, INCLUDING FITTINGS, INSTALLED ON OR AFTER AUGUST 28, 2003, EXCEPT PIPE INSTALLED UNDER A CONSTRUCTION PERMIT FOR WHICH THE HEALTH DEPT. RECEIVED A COMPLETE APPLICATION BEFORE AUGUST 28, 2003, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE. SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL. AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE.
 - OWNERSHIP AND MAINTENANCE OF THE WATER DISTRIBUTION SYSTEM BY THE CITY OF COCONUT CREEK IS LIMITED TO THE WATER MAINS, SERVICES, AND APPURTENANCES LOCATED WITHIN PUBLIC RIGHTS-OF-WAY AND/OR COCONUT CREEK EXCLUSIVE EASEMENTS AND STRICTLY EXCLUDES ALL PIPES AND FIXTURES DOWNSTREAM OF THE WATER METER LOCATED ON PRIVATE PROPERTY IRRESPECTIVE OF THE PHYSICAL LOCATION OF THE WATER METER.
 - THE APPROPRIATE NUMBER OF ERC'S MUST BE PURCHASED PRIOR TO THE ISSUANCE OF ANY PERMIT.
 - A WATER & SEWER AGREEMENT IS REQUIRED PRIOR TO ISSUANCE OF A UTILITIES PERMIT.
 - HEAVY LANDSCAPING, WALLS, FENCES, ENTRANCE FEATURES, BERMS AND SIGNS THAT MAY INTERFERE WITH THE INSTALLATION AND MAINTENANCE OF UTILITIES WILL NOT BE PLACED WITHIN A UTILITY EASEMENT, WITHIN 6 FEET OF A WATER LINE, FIRE HYDRANT OR FORCE MAIN, OR WITHIN 6 FEET OF A SANITARY OR STORM SEWER.
 - THE CONTRACTOR SHALL ADHERE TO CITY OF COCONUT CREEK STANDARDS FOR UTILITY INSTALLATION AND SHALL GIVE THE CITY AND THE ENGINEER OF RECORD A MINIMUM OF 48 HOURS NOTICE FOR ANY SCHEDULED INSPECTIONS.
 - THE CONTRACTOR SHALL ADHERE TO CITY OF COCONUT CREEK STANDARDS FOR THE SUBMITTAL OF RECORD DRAWINGS. WATER MAIN AS-BUILTS SHALL CONTAIN ELEVATIONS EVERY 100 L.F. OF PIPE AT A MINIMUM.
 - NO VALVES, METERS, FIRE HYDRANTS, CLEANOUTS, MANHOLES OR OTHER UTILITY APPURTENANCES ARE TO BE PLACED IN, OR ADJACENT TO SIDEWALKS, CURBS, PARKING SPACES OR OTHER SUCH SITE FEATURES SO AS TO PRESENT A HAZARD OR RESTRICT THE MAINTENANCE OR OPERATION OF THE UTILITY INFRASTRUCTURE.
 - A HYDROSTATIC TEST SHALL BE PERFORMED AT 150 PSI FOR NOT LESS THAN TWO (2) HOURS. TEST SECTIONS SHALL NOT EXCEED 2,000 L.F. AND SHALL MEET AWWA SPECIFICATIONS. THIS TEST SHALL NOT BE PERFORMED UNTIL THE CITY HAS RECEIVED AND APPROVED AS-BUILT DRAWINGS AND THE TRENCHES HAVE BEEN BACKFILLED AND PROPERLY COMPACTED.

- CONSTRUCTION NOTES:**
- CONTRACTOR TO SAW-CUT AT ALL LOCATIONS OF REMOVAL OF EXISTING CONC. SIDEWALK, CONC. CURB AND ASPHALT UNLESS OTHERWISE NOTED. ALL BASE AND SUBBASE MATERIAL SHALL BE REMOVED WITHIN THE PROPOSED LANDSCAPED AREA.
 - CONTRACTOR TO MATCH EXIST. GRADES AND TO CONSTRUCT A SMOOTH TRANSITION FROM EXISTING FACILITIES TO PROPOSED.
 - CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE AND DISPOSE PER LOCAL ORDINANCES.
 - CONTRACTOR TO ENSURE ALL CONSTRUCTION IS IN ACCORDANCE WITH CITY DESIGN STANDARDS.
 - CONTRACTOR TO SOD ALL DISTURBED AREAS, SODDING INCLUDES MAINTAINING SLOPE AND SOD UNTIL COMPLETION AND ACCEPTANCE OF THE TOTAL PROJECT OR GROWTH IS ESTABLISHED WHICHEVER COMES LAST.
 - ALL EXISTING TRAFFIC SIGNS DISTURBED DURING CONSTRUCTION SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
 - THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT IN THE EVENT THAT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OF THESE STANDARDS OR THE PROGRESSION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY AND PRIOR TO ANY FURTHER CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO HIS CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
 - NOTIFY SUNSHINE STATE ONE CALL (1-800-432-4770) PRIOR TO CONSTRUCTION.
 - PROJECT BASED ON DESIGN SURVEY PREPARED BY OTHERS.
 - THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE TRAFFIC THROUGHOUT THE DURATION OF CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 600.
 - THE CONTRACTOR SHALL NOT ENCROACH ONTO PRIVATE PROPERTY WITHOUT PRIOR APPROVAL OF THE OWNER AND ENGINEER. SHOULD ACCESS BE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL TEMPORARY CONSTRUCTION EASEMENTS NECESSARY FOR COMPLETION OF THE WORK.
 - ALL HYDRANTS ARE TO HAVE "OUT OF SERVICE" SIGNS AFFIXED AT THE TIME OF INSTALLATION. SIGNS ARE TO REMAIN UNTIL SYSTEM IS CLEARED BY HEALTH DEPARTMENT.
 - THE EXISTING UNDERGROUND UTILITIES SHOWN ARE PER ABOVE GROUND SURVEY DATA AND UTILITY AS-BUILT DATA. THIS INFORMATION DOES NOT WARRANT EXACT SIZE AND LOCATION OF THE UTILITIES. ALSO, THERE MAY BE ADDITIONAL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION THAT MAY BE AFFECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING EXISTING UTILITIES DURING THE COURSE OF CONSTRUCTION.
 - FIRE HYDRANTS SHALL BE PROTECTED BY CONCRETE BOLLARDS PER N.F.P.A. #14-4.5.5 (LATEST ED).
 - REFER "EL DORADO HOME FURNISHINGS CENTER" PLANS BY CREECH ENGINEERS, INC. FOR ADDITIONAL WATER, SEWER, AND DRAINAGE WORK WITHIN THE LIMITS OF CONSTRUCTION.

- BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT NOTES ON WATER AND SEWER SEPARATION**
- A. SANITARY SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.
- WHERE SANITARY SEWERS OR FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES OF VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (D.I.P.) AT THE CROSSING. SUFFICIENT LENGTHS OF D.I.P. MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
- ALL CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUAL DISTANCE FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
- WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.
- B. A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN 10-FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF D.I.P. AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF D.I.P. WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
- C. ALL D.I.P. SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURE AGAINST CORROSION SHALL BE USED AS DETERMINED BY DESIGN.
- THE CONTRACTOR SHALL CONFORM TO THE MOST CURRENT AND MOST STRINGENT STANDARDS AND SPECIFICATION REQUIREMENTS FOR THE BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT AND THE CITY OF COCONUT CREEK, PERTAINING TO ALL UTILITY PIPE SEPARATIONS AND CLEARANCES.

No.	REVISIONS	DATE	BY
5	DRC REVISION	9/20/06	HLS
4	ISSUED FOR PERMIT SUBMITTALS	7/28/2006	HLS
3	PER DRC COMMENTS	7/24/2006	HLS
2	PER DRC COMMENTS	6/9/2006	HLS
1	PER DRC COMMENTS	5/24/2006	HLS

SCALE AS NOTED
 DESIGNED BY E.W.
 DRAWN BY GB
 CHECKED BY HLS
 DATE 12/09/05
 PROJECT NO. 042701051

COMMERCE BANK OUTPARCEL
EL DORADO HOME FURNISHINGS CENTER
COCONUT CREEK, FL
 COCONUT CREEK, BROWARD COUNTY FLORIDA

DESIGN ENGINEER:
 HEATHER SPENCER, P.E.
 FLORIDA REGISTRATION NUMBER:
 59511

SHEET NUMBER
UTILITY PLAN
C10