



**CYRIX ENGINEERING, INC.**  
 Engineers & Surveyors  
 1144 Tallevast Rd., #111  
 Sarasota, Fla 34243

PROJECT NO.	DATE	BY
02030	04/10/08	J.M.P.
CHECKED BY	DATE	BY
REVISIONS	DATE	BY
CHANGES PER TOWN COMMENTS	28 JUL 04	J.M.P.
CHANGES PER TOWN UTILITIES	04 APR 05	J.M.P.
REVISED SANITARY SEWER	11 OCT 06	J.M.P.
REVISED WATER MAIN	11 OCT 06	J.M.P.
REVISED STORM PIPING	11 OCT 06	J.M.P.
REVISED WATERMAIN, PAVEMENT LAYOUT, AND ADDED FURNISH UTILITY INFORMATION PER TOWN OF LONGBOAT KEY	01 MAY 08	J.M.P.

SEAL:   
 J. Mark Privette PE, Fl. Reg. # 43394  
 MAY 18 2008  
 Date

**COQUINA BEACH SUBDIVISION**

**PROPOSED UTILITIES PLAN**

SHEET 4 OF 16

**ADDITIONAL PLAN NOTES/SUPPLEMENTAL INFORMATION**

- SEE SHEET #3 FOR DEVELOPMENT DATA AND HORIZONTAL CONTROL PLAN.
- SEE SHEET #4 FOR PROPOSED WATER AND SEWER LAYOUT.
- SEE SHEET #5 FOR MASTER STORMWATER PLAN AND SHEET #6 FOR DRAINAGE/GRADING PLAN.
- SEE SHEET #7 FOR EXISTING TREES, BEST MANAGEMENT CONTROL PRACTICES AND SE&C DEVICES/PLAN.
- EXISTING OVERHEAD UTILITIES AND POLES TO BE REMOVED BY FP&L, AND LINES RELOCATED FOR UNDERGROUND SERVICE.
- ALL CONSTRUCTION TO BE PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE PERTINENT TOWN OF LONGBOAT KEY STANDARDS.
- SEE SHEETS #13, #14 AND #15 FOR PLAN AND PROFILES OF WATER AND SEWER LINES.
- EXISTING WATER SERVICES (5), CONNECTED TO EXISTING 2" WATER MAIN TO BE RECONNECTED TO PROPOSED 8" WATER MAIN. THE EXISTING 2" WATER MAIN IS TO BE REMOVED AS SHOWN.

**LEGEND**

EXISTING	PROPOSED
--- PROPERTY LINE	--- RIGHT-OF-WAY
--- ADJACENT LOT LINE	--- LOT/UNIT LINE
--- POTABLE WATER MAIN	--- BUILDING SETBACK
--- FIRE HYDRANT ASSEMBLY	--- WATER MAIN & GATE VALVE
--- SANITARY MAIN (GRAVITY)	--- FIRE HYDRANT ASSEMBLY
--- SANITARY FORCE MAIN	--- WATER SERVICE
--- STORM PIPING W/M.E.S.	--- SANITARY MANHOLE
--- DRAINAGE DITCH	--- SANITARY SERVICE
--- SIDEWALK W/CONTROL JOINTS	--- SIDEWALK W/CONTROL JOINTS
--- ROADWAY CENTER LINE	--- ASPHALT PAVEMENT

**SANITARY SEWER AS-BUILTS**

TRITON AVENUE		
ITEM	STATION	OFFSET
1. SAN. SERVICE LT.	03+83.39	30.8' LT.
2. SAN. SERVICE RT.	04+63.37	27.4' RT.
3. DOUBLE SAN. SERVICE LT.	04+86.64	32.3' LT.
4. DOUBLE SAN. SERVICE LT.	06+79.24	34.8' LT.

  

NEPTUNE AVENUE		
ITEM	STATION	OFFSET
5. SAN. SERVICE LT.	05+69.84	29.1' LT.
6. DOUBLE SAN. SERVICE RT.	08+92.42	28.8' RT.
7. DOUBLE SAN. SERVICE LT.	08+97.78	30.1' LT.
8. DOUBLE SAN. SERVICE RT.	10+40.67	30.4' RT.

**POTABLE WATER AS-BUILTS**

TRITON AVENUE		
ITEM	STATION	OFFSET
1. METER BOX LT.	03+71.10	29.7' LT.
2. METER BOX RT.	03+98.42	30.5' RT.
3. DOUBLE METER BOX LT.	05+86.55	28.4' LT.
4. METER BOX RT.	05+79.46	28.6' RT.
5. METER BOX LT.	07+15.03	55.8' LT.

  

NEPTUNE AVENUE		
ITEM	STATION	OFFSET
6. METER BOX LT.	03+87.70	27.6' LT.
7. METER BOX RT.	07+49.39	28.7' RT.
8. METER BOX RT.	08+88.70	29.5' LT.
9. DOUBLE METER BOX RT.	09+39.96	28.4' RT.
10. METER BOX LT.	09+56.43	30.3' LT.
11. METER BOX RT.	11+15.86	45.5' RT.

**POTABLE WATER USE CALCULATIONS**

UNIT DESCRIPTION	# UNITS	PERSONS/UNIT	POPULATION	PER CAPITA RATE	SUB-TOTAL RATE
3 BEDROOM/2 BATH	8	3.0	24.0	80 GPD	1,920.0 GPD
TOTAL WATER DEMAND					1,920.0 GPD

  

**SANITARY SEWER FLOW CALCULATIONS**

UNIT DESCRIPTION	# UNITS	PERSONS/UNIT	POPULATION	PER CAPITA RATE	SUB-TOTAL RATE
3 BEDROOM/2 BATH	8	3.0	24.0	95 GPD	2,280.0 GPD
TOTAL SEWAGE FLOWS					2,280.0 GPD

  

**SOLID WASTE GENERATION CALCULATIONS**

UNIT DESCRIPTION	# UNITS	PERSONS/UNIT	POPULATION	PER CAPITA RATE	SUB-TOTAL RATE
3 BEDROOM/2 BATH	8	3.0	24.0	7.1 LB/DAY	170.4 LB/DAY
TOTAL WASTE GENERATED					170.4 LB/DAY

DENSITY OF LOOSE MUNICIPAL SOLID WASTE = 300 LB/CY  
 0.568 CY/DAY