

APPENDIX A

**INUNDATION
SCENARIOS**



List of Figures

| | |
|--|----|
| Figure A.1 Existing Condition Mean Higher High Water Line Within City Limits..... | 1 |
| Figure A.2 Existing Condition Mean Higher High Water Line, Downtown Punta Gorda..... | 2 |
| Figure A.3 1.5-Ft Sea Level Rise Within City Limits | 3 |
| Figure A.4 1.5-Ft Sea Level Rise, Downtown Punta Gorda | 4 |
| Figure A.5 3.0-Ft Sea Level Rise Within City Limits | 5 |
| Figure A.6 3.0-Ft Sea Level Rise, Downtown Punta Gorda | 6 |
| Figure A.7 4% Annual Chance SWEL Within City Limits | 7 |
| Figure A.8 4% Annual Chance SWEL, Downtown Punta Gorda | 8 |
| Figure A.9 1% Annual Chance SWEL, Critical Public Infrastructure | 9 |
| Figure A.10 1% Annual Chance SWEL Within City Limits | 10 |
| Figure A.11 1% Annual Chance SWEL, Downtown Punta Gorda | 11 |
| Figure A.12 0.2% Annual Chance SWEL, Critical Public Infrastructure | 12 |
| Figure A.13 0.2% Annual Chance SWEL Within City Limits | 13 |
| Figure A.14 0.2% Annual Chance SWEL, Downtown Punta Gorda | 14 |
| Figure A.15 4% Annual Chance SWEL + 1.5-Ft Sea Level Rise Within City Limits | 15 |
| Figure A.16 4% Annual Chance SWEL + 1.5-Ft Sea Level Rise, Downtown Punta Gorda | 16 |
| Figure A.17 4% Annual Chance SWEL + 3.0-Ft Sea Level Rise Within City Limits | 17 |
| Figure A.18 4% Annual Chance SWEL + 3.0-Ft Sea Level Rise, Downtown Punta Gorda | 18 |
| Figure A.19 SWEL Comparative Plot | 19 |

List of Tables

| | |
|---|----|
| Table A.1 Elevation Certificates Provided by The City | 20 |
| Table A.2 Historic Properties with Inundation in the 12 Coastal Flooding Scenarios..... | 21 |
| Table A.3 Critical Facilities with Inundation in the 12 Coastal Flooding Scenarios. | 22 |
| Table A.4 Estimated Economic Impacts on Critical Infrastructure at the 1% Annual Chance Flood | 23 |

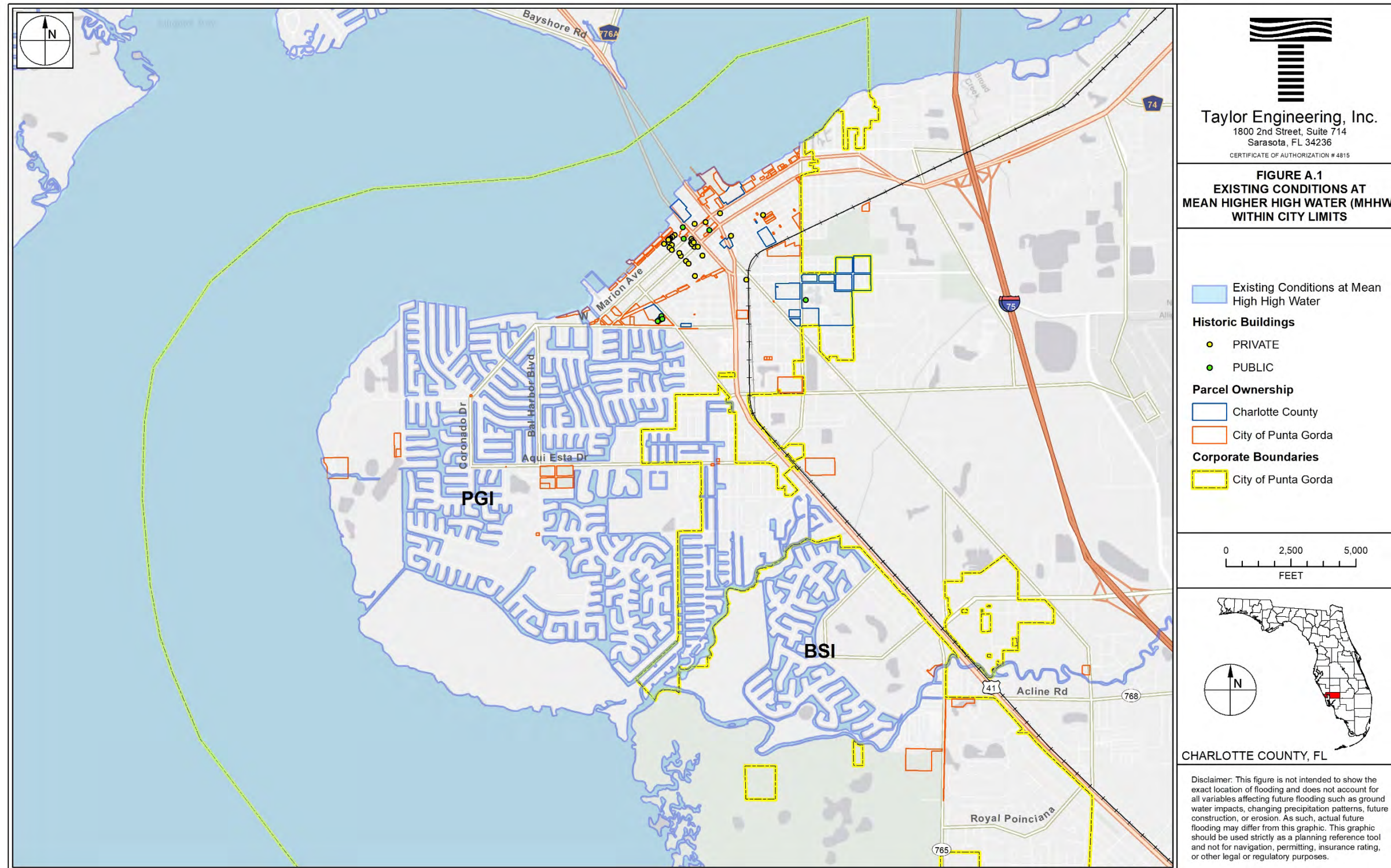


Figure A.1 Existing Condition Mean Higher High Water Line Within City Limits

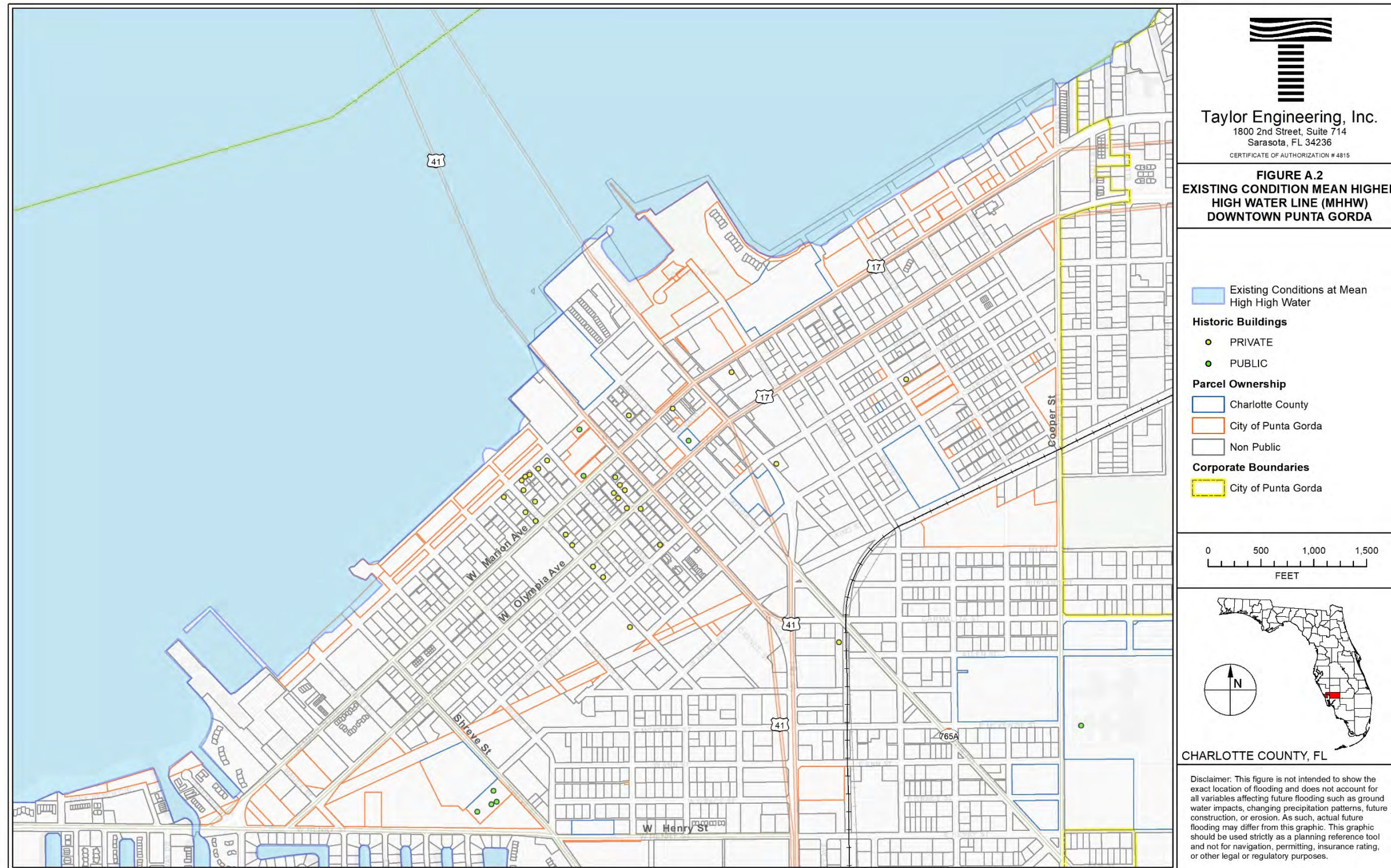


Figure A.2 Existing Condition Mean Higher High Water Line, Downtown Punta Gorda

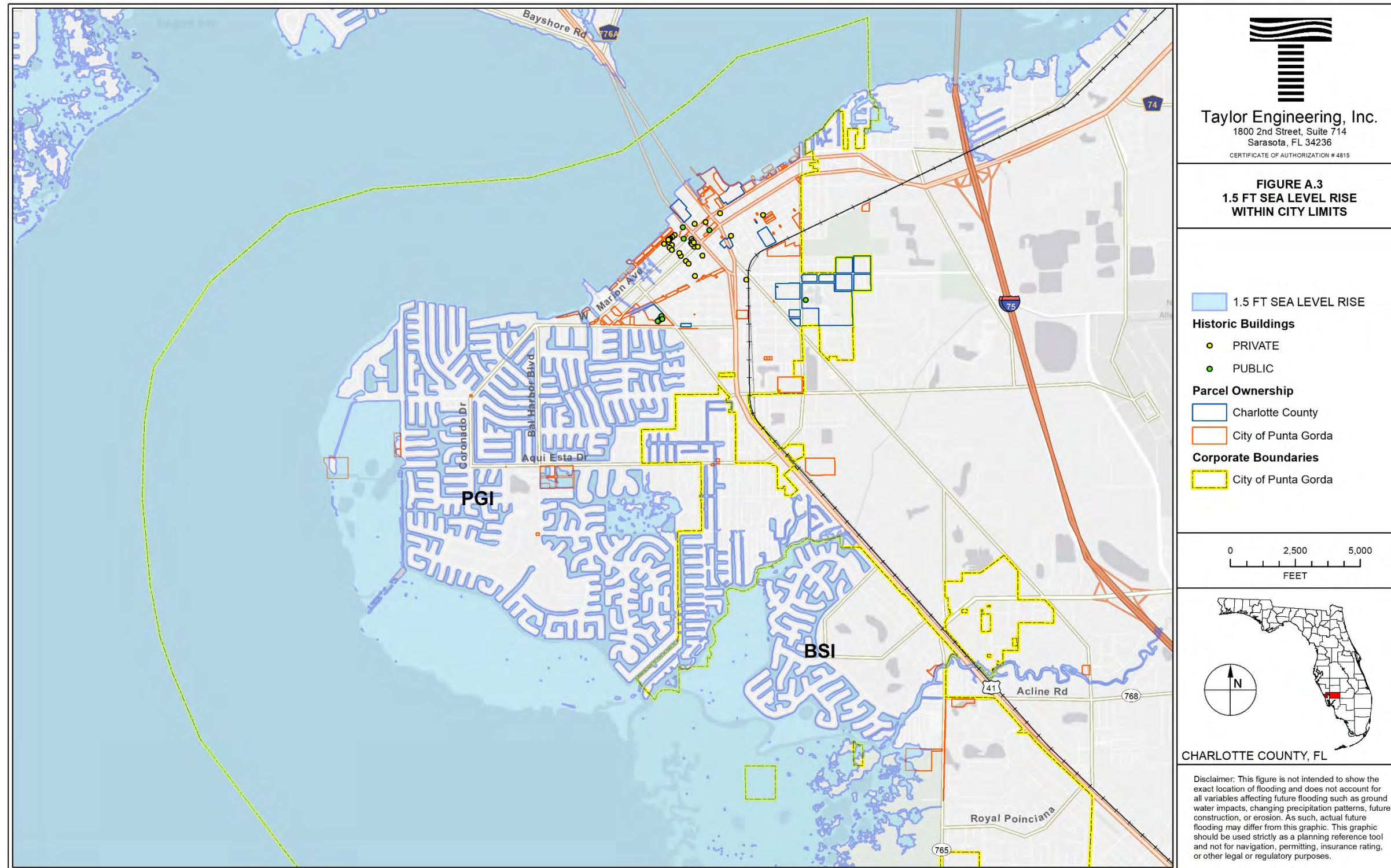


Figure A.3 1.5-Ft Sea Level Rise Within City Limits

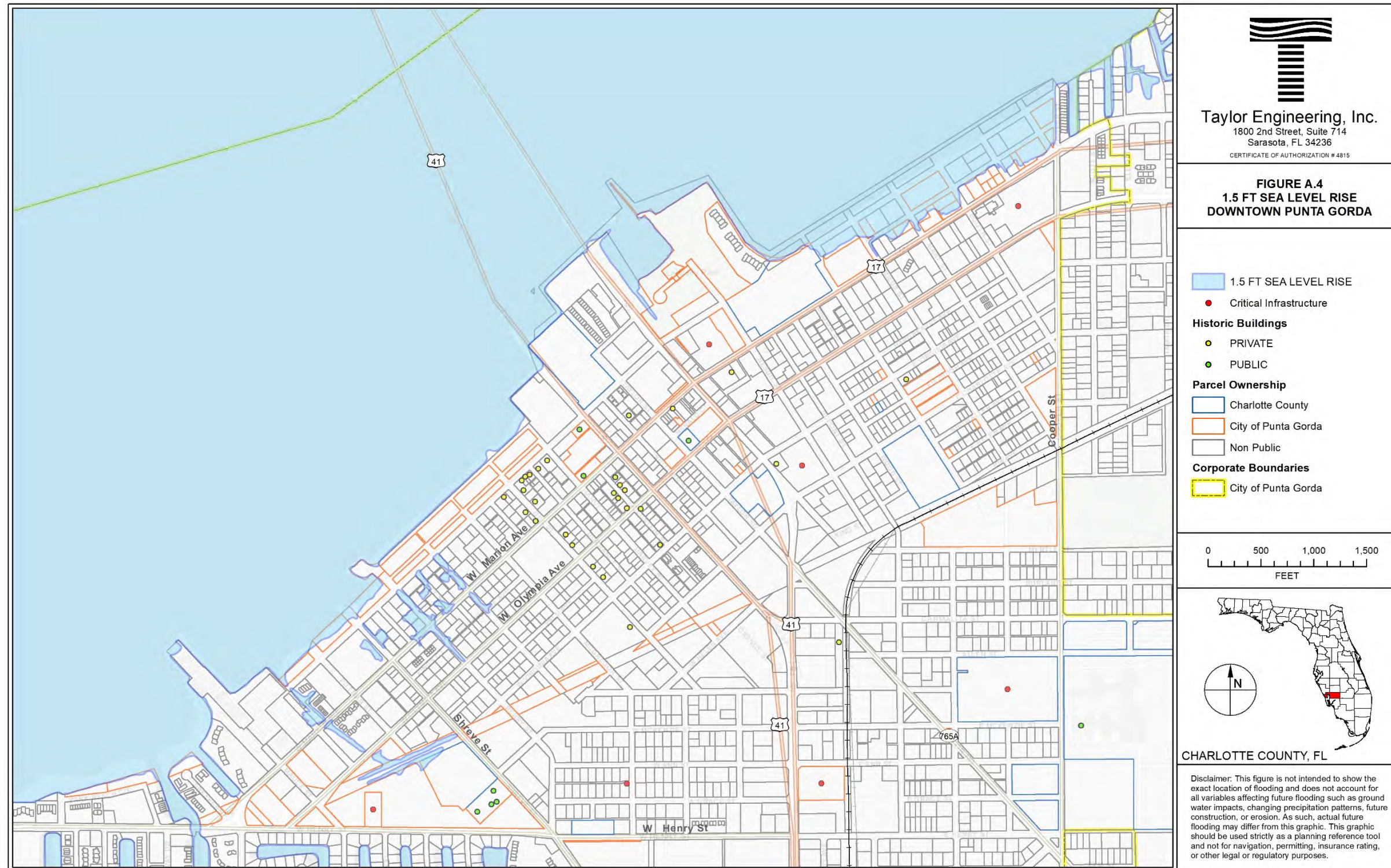


Figure A.4 1.5-Ft Sea Level Rise, Downtown Punta Gorda

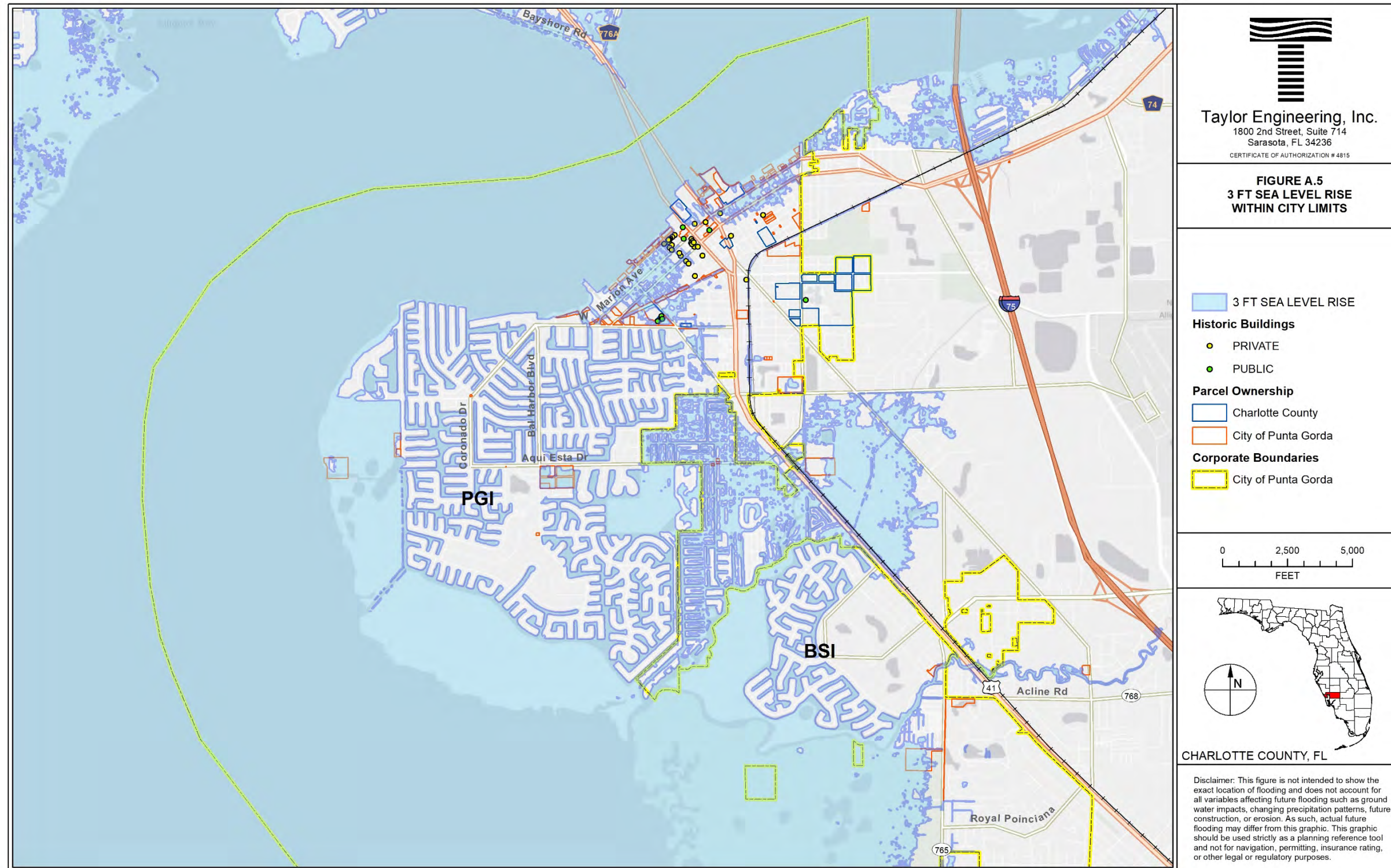


Figure A.5 3.0-Ft Sea Level Rise Within City Limits

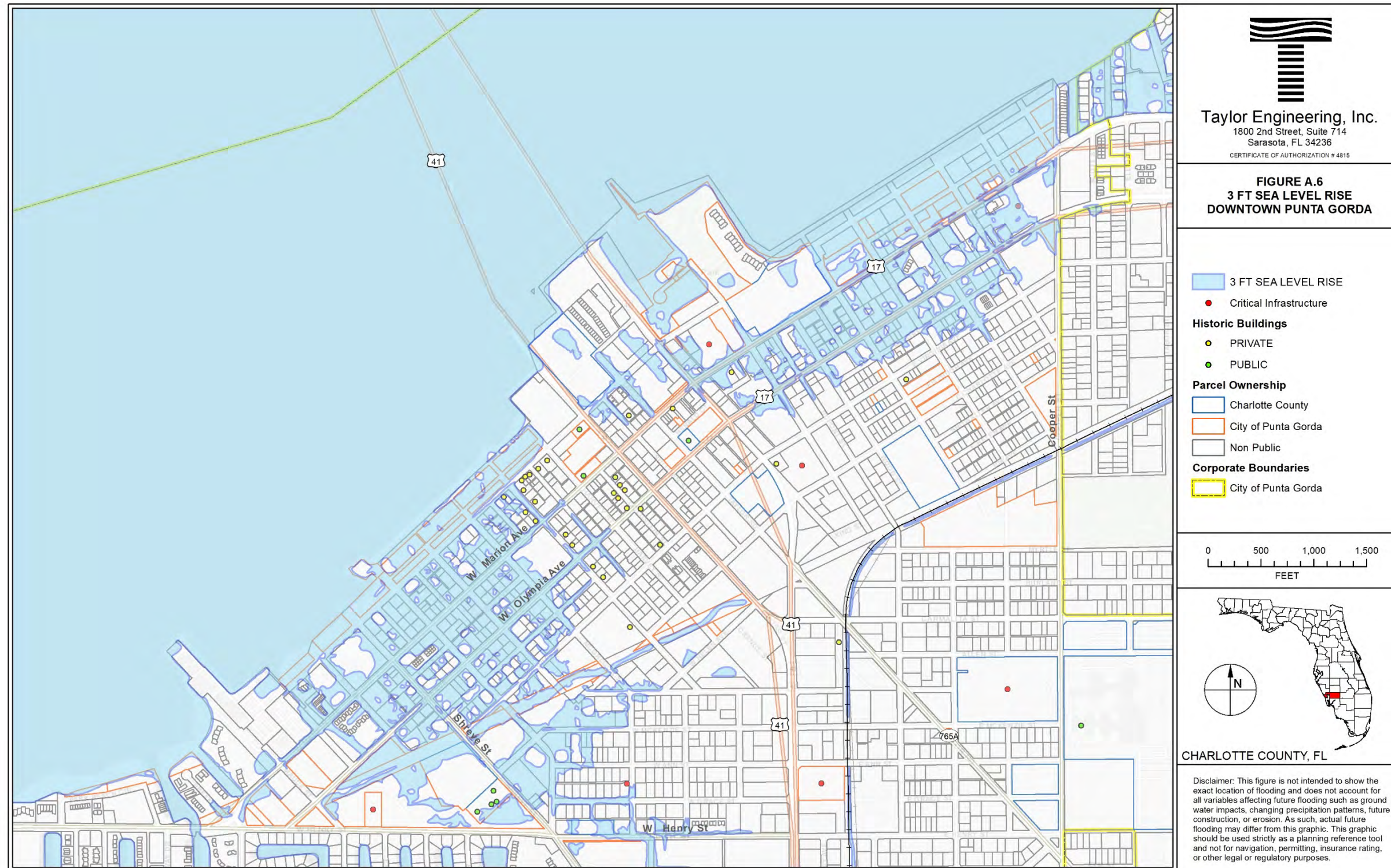


Figure A.6 3.0-Ft Sea Level Rise, Downtown Punta Gorda

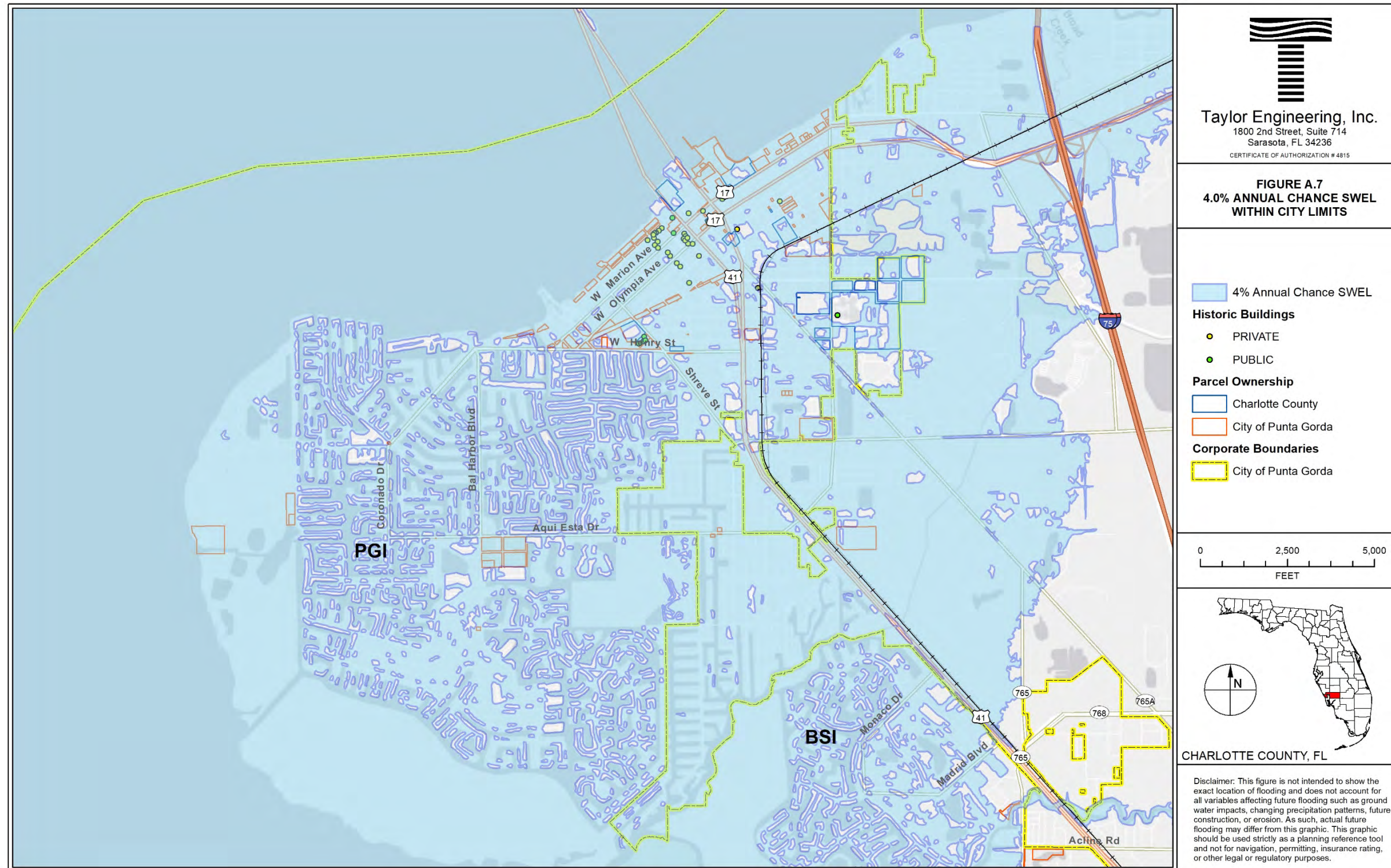


Figure A.7 4% Annual Chance SWEL Within City Limits

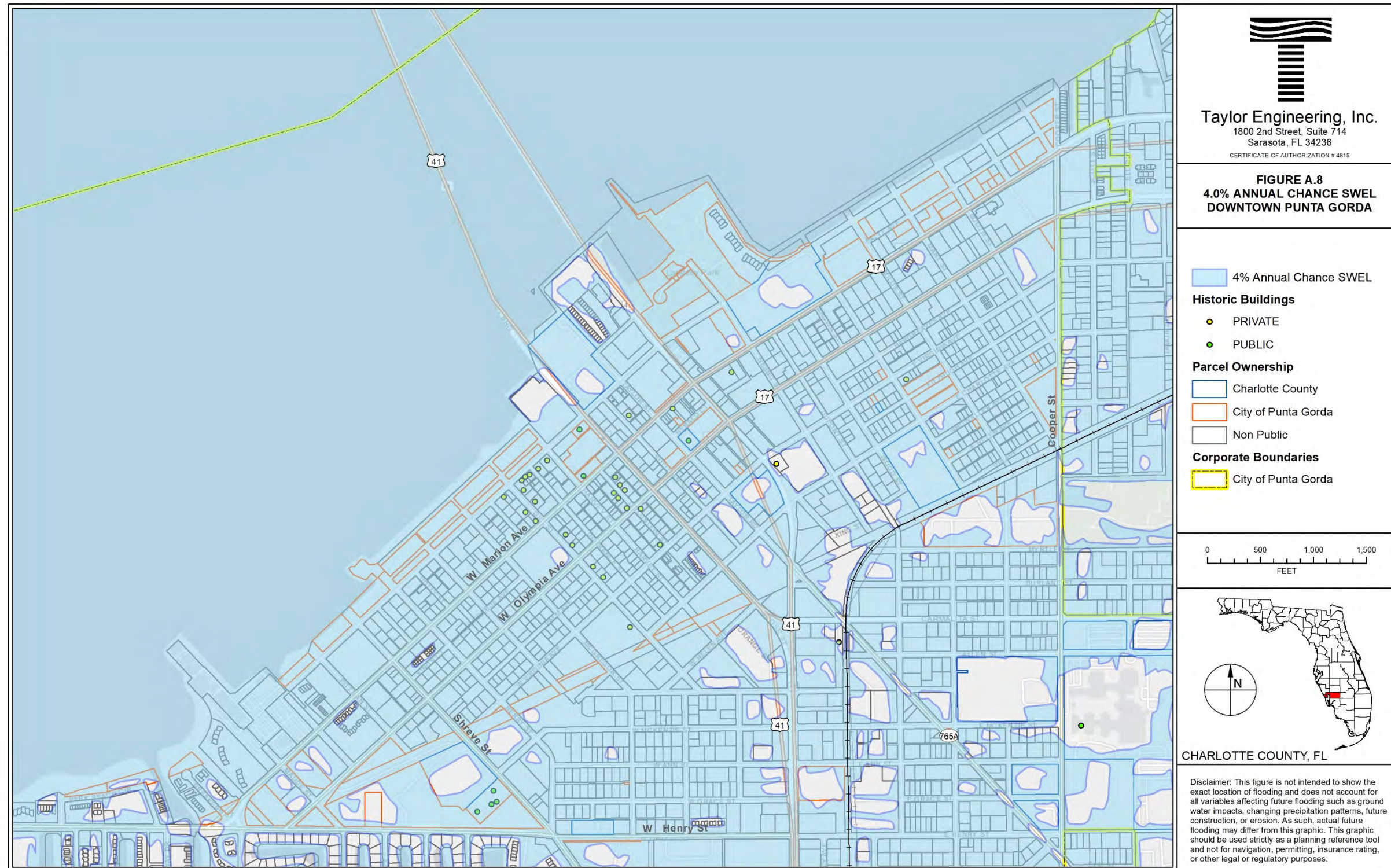


Figure A.8 4% Annual Chance SWEL, Downtown Punta Gorda

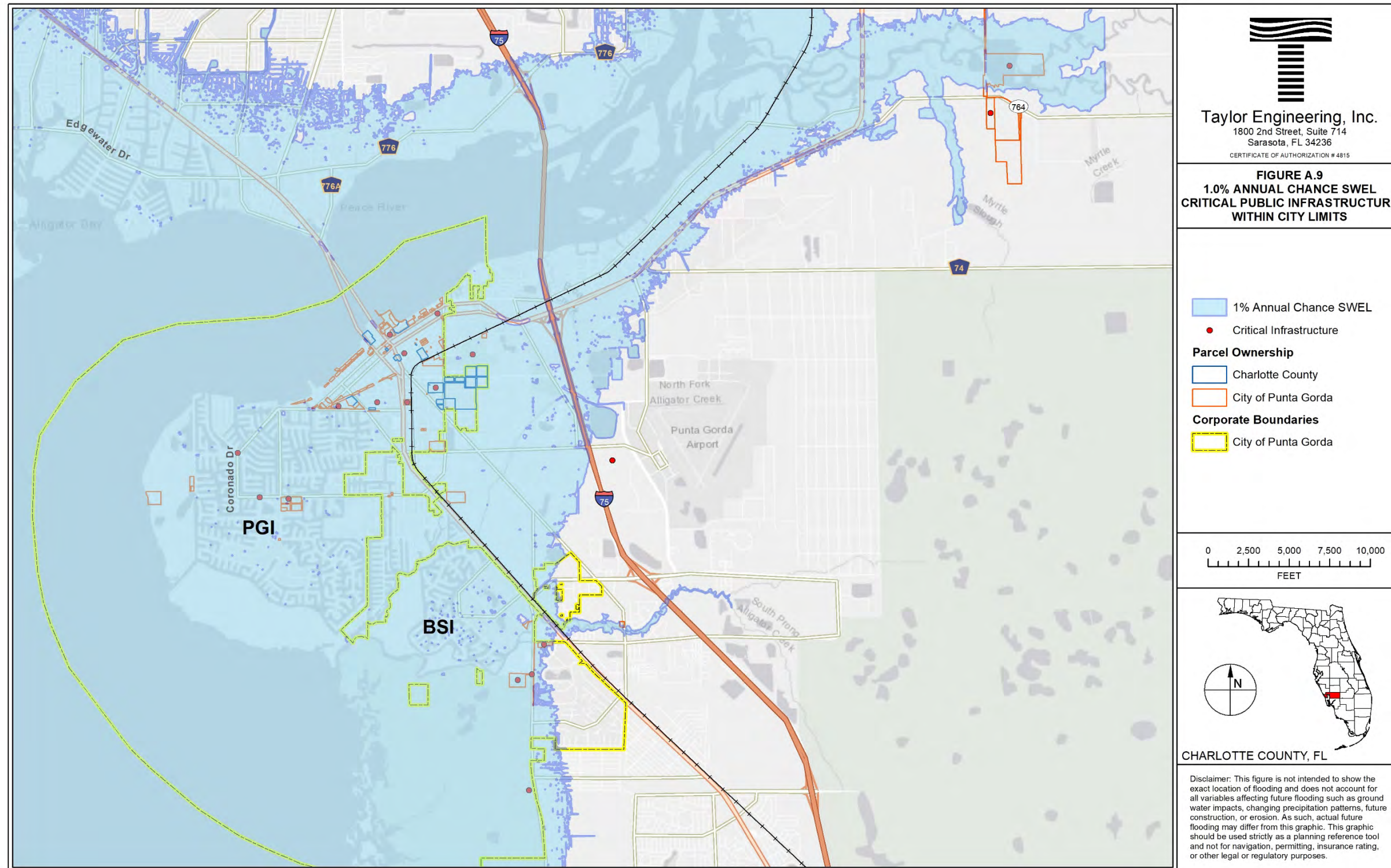


Figure A.9 1% Annual Chance SWEL, Critical Public Infrastructure

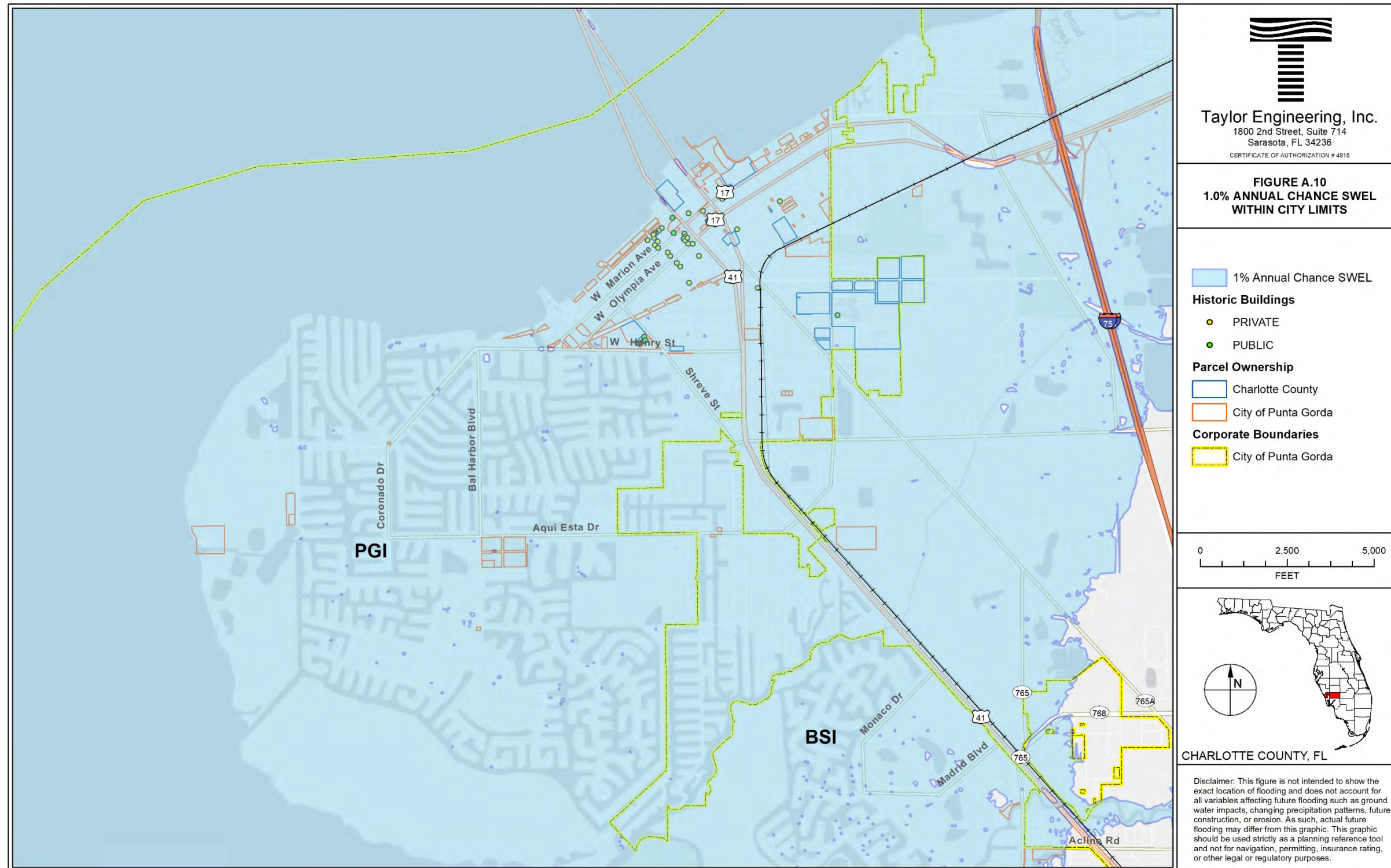


Figure A.10 1% Annual Chance SWEL Within City Limits

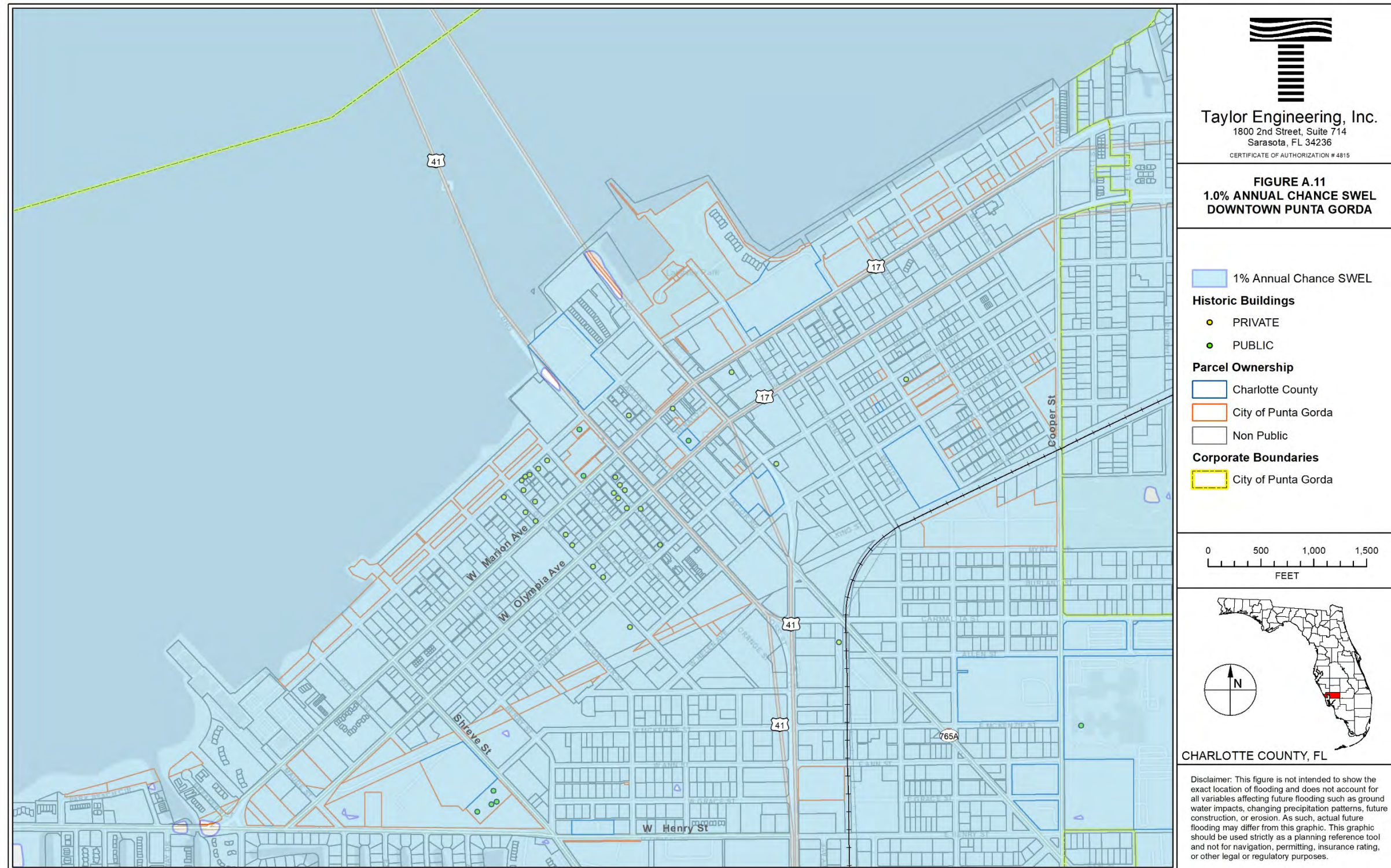


Figure A.11 1% Annual Chance SWEL, Downtown Punta Gorda

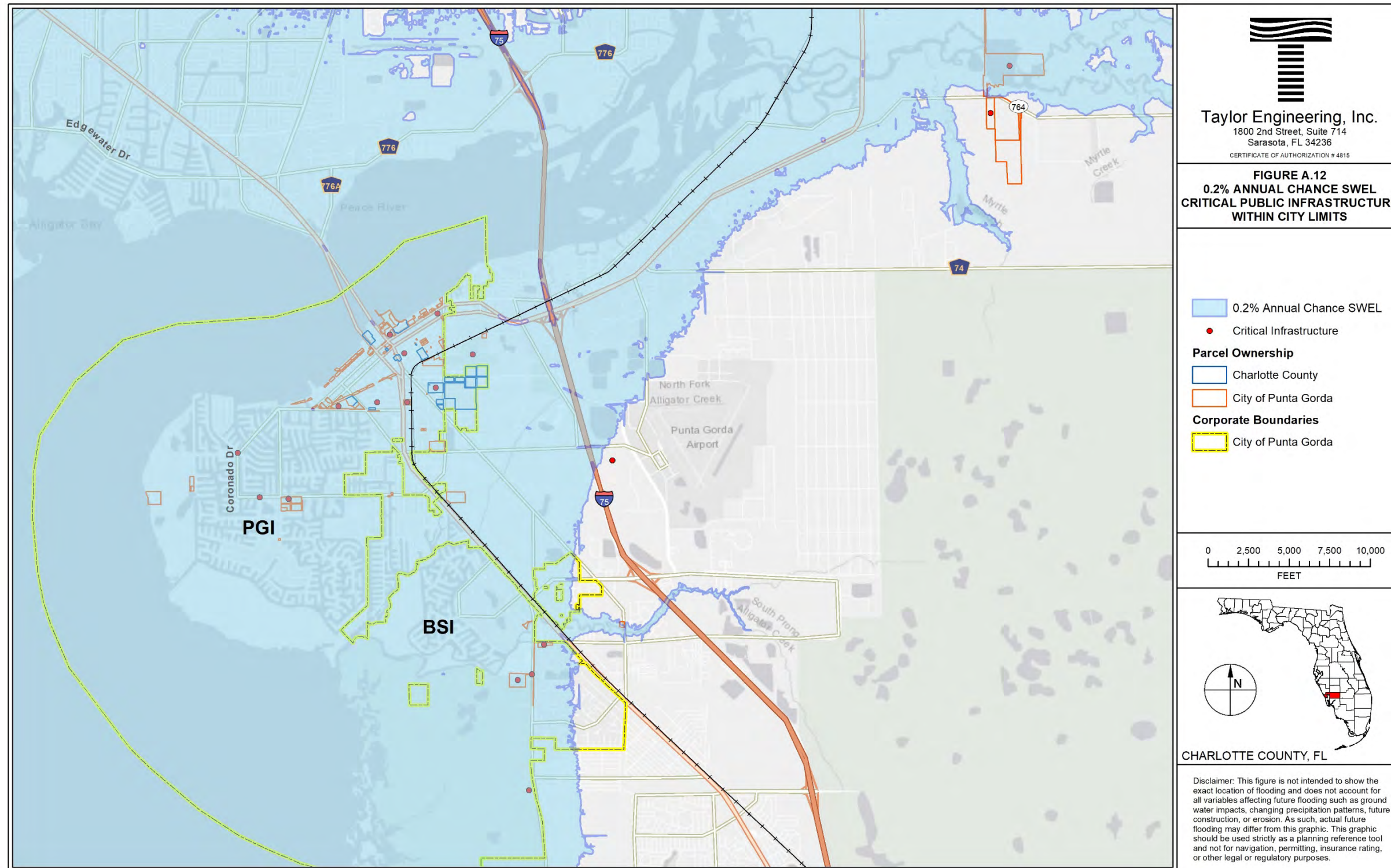


Figure A.12 0.2% Annual Chance SWEL, Critical Public Infrastructure

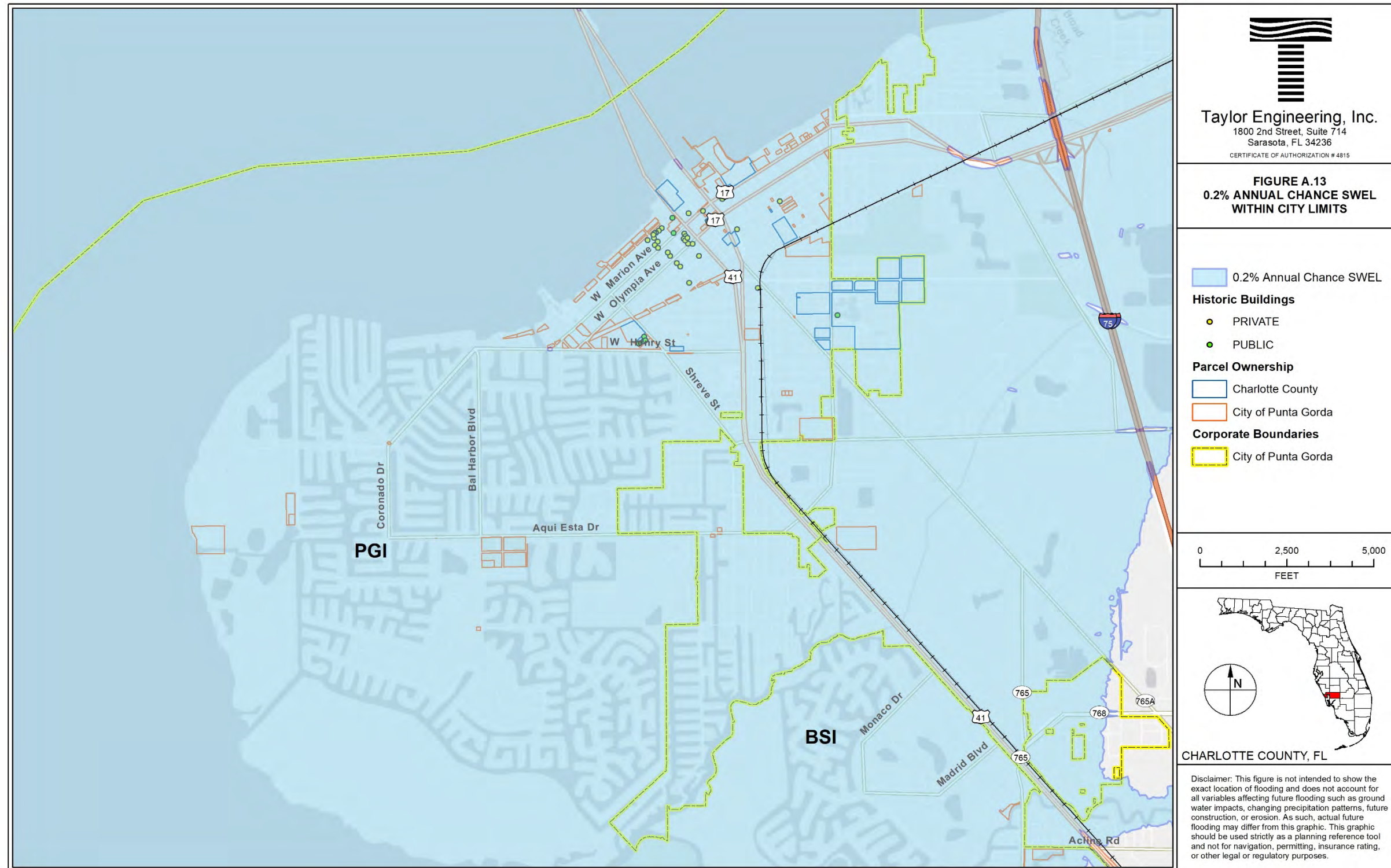


Figure A.13 0.2% Annual Chance SWEL Within City Limits

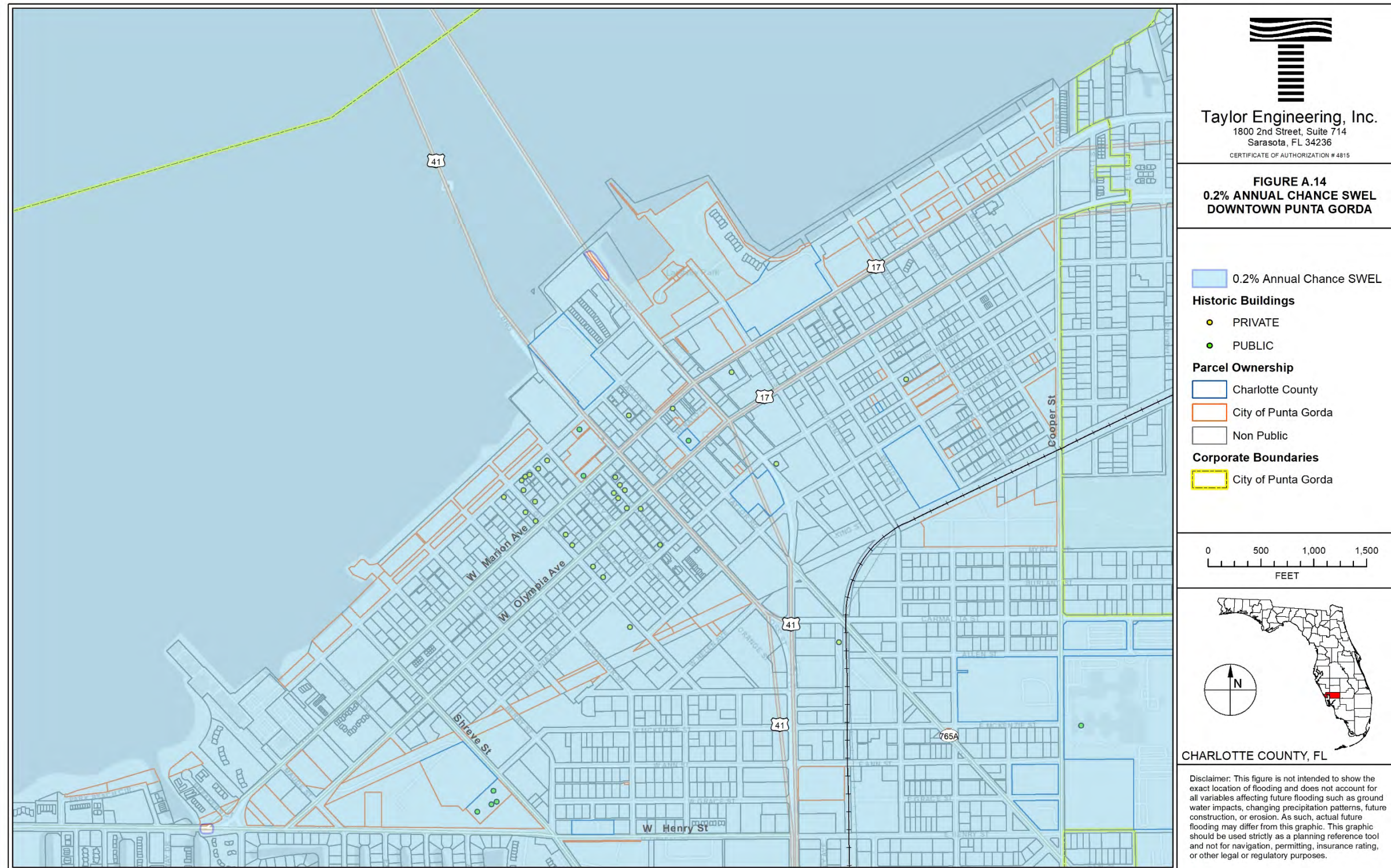


Figure A.14 0.2% Annual Chance SWEL, Downtown Punta Gorda

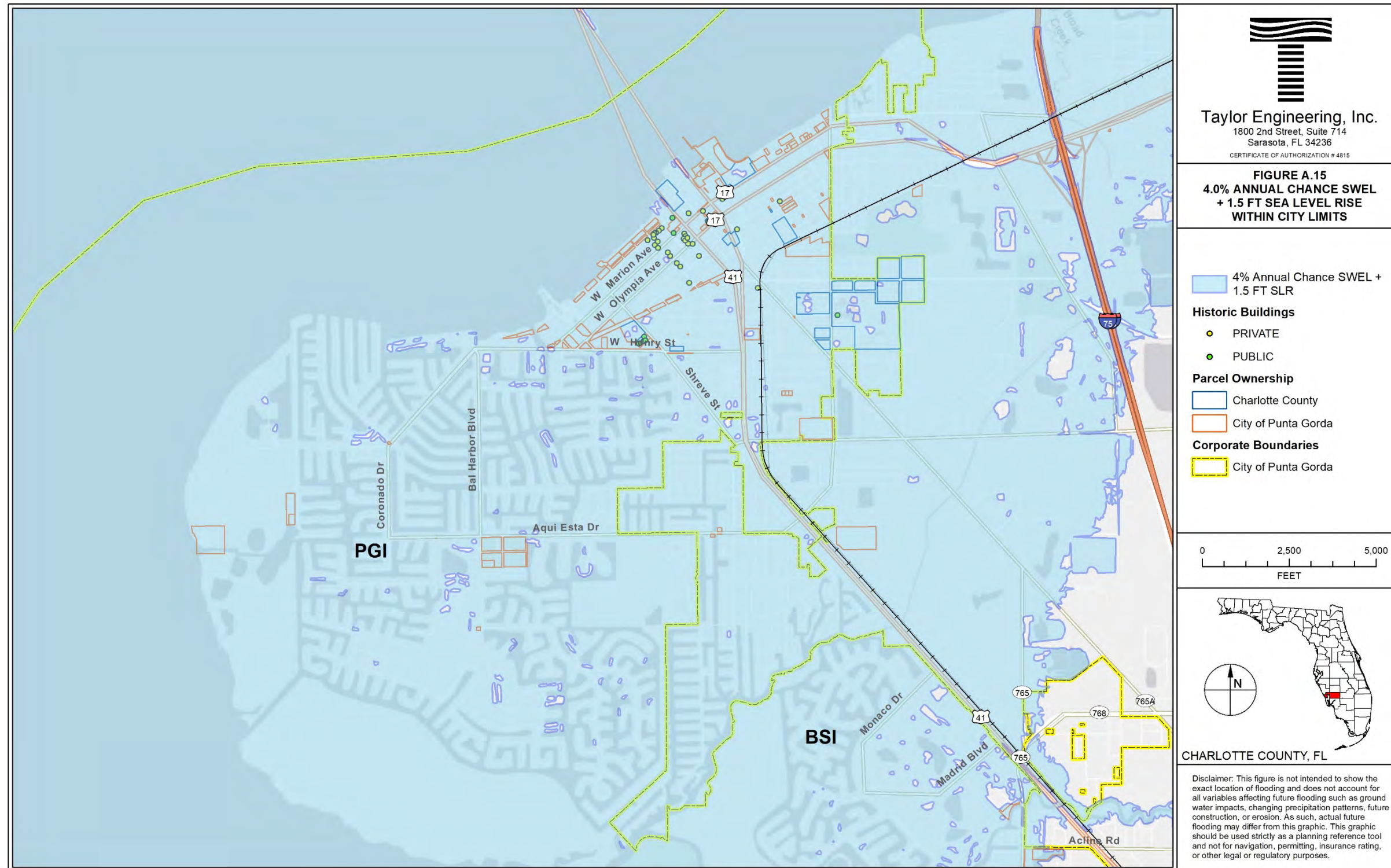


Figure A.15 4% Annual Chance SWEL + 1.5-Ft Sea Level Rise Within City Limits

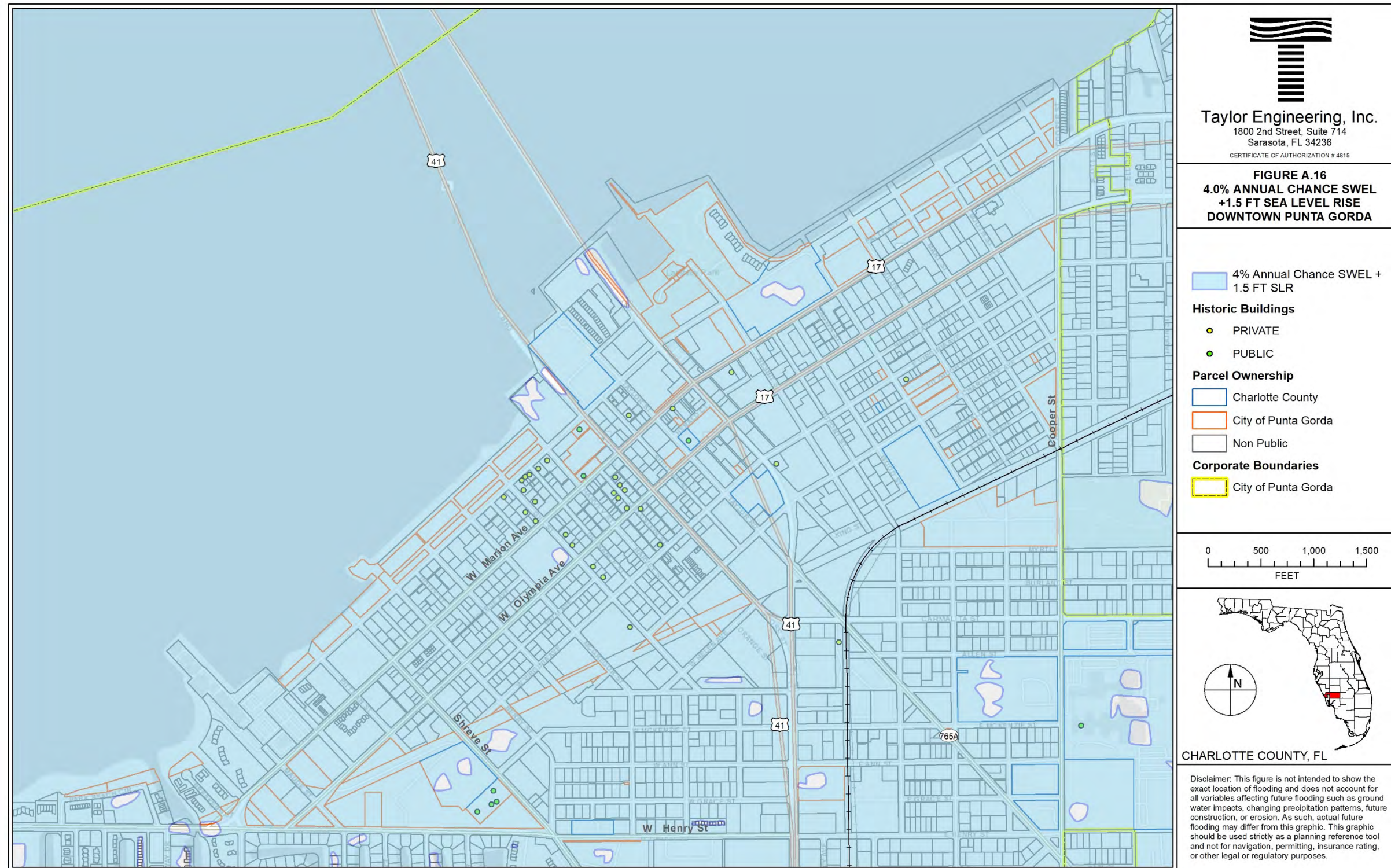


Figure A.16 4% Annual Chance SWEL + 1.5-Ft Sea Level Rise, Downtown Punta Gorda

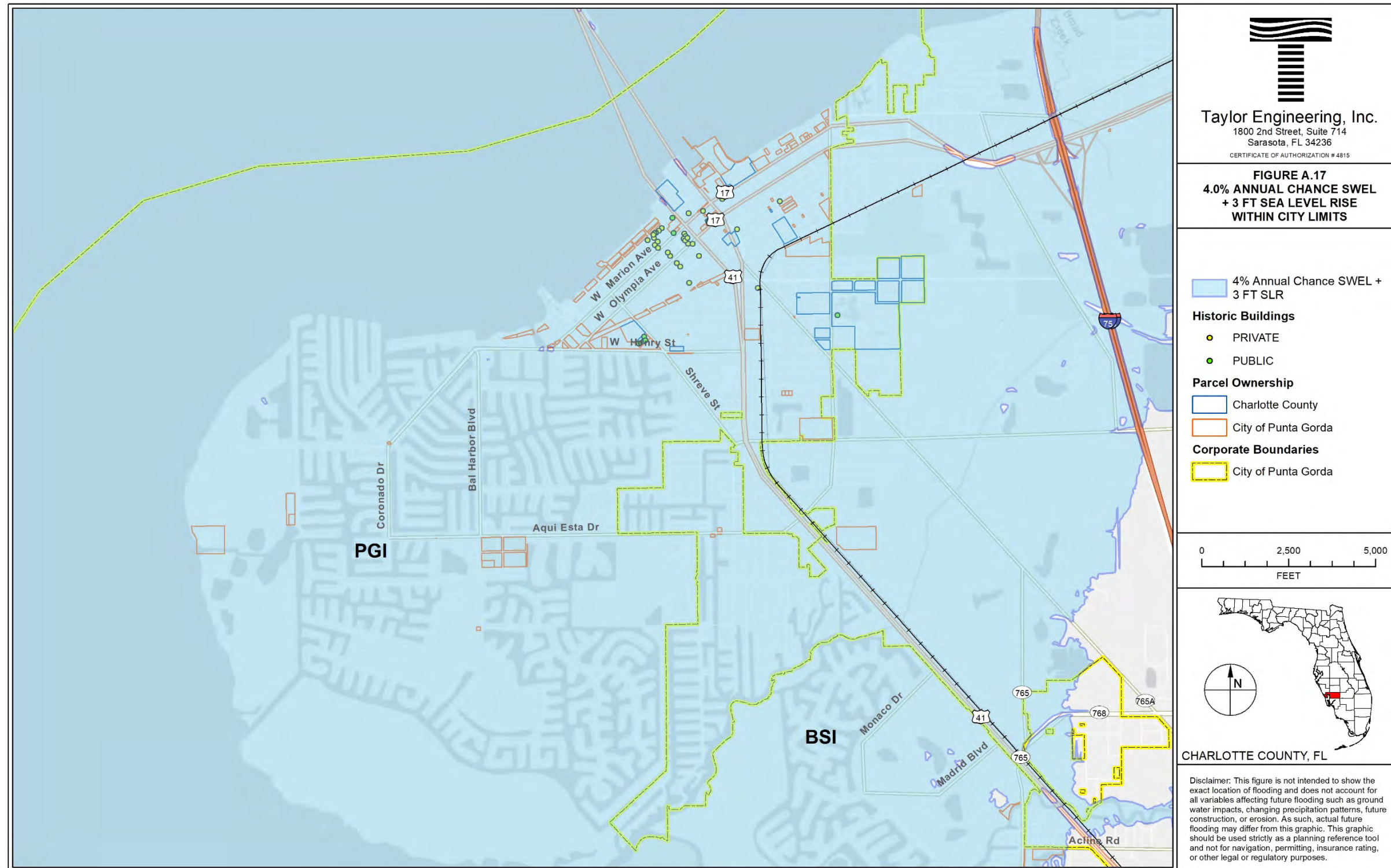


Figure A.17 4% Annual Chance SWEL + 3.0-Ft Sea Level Rise Within City Limits

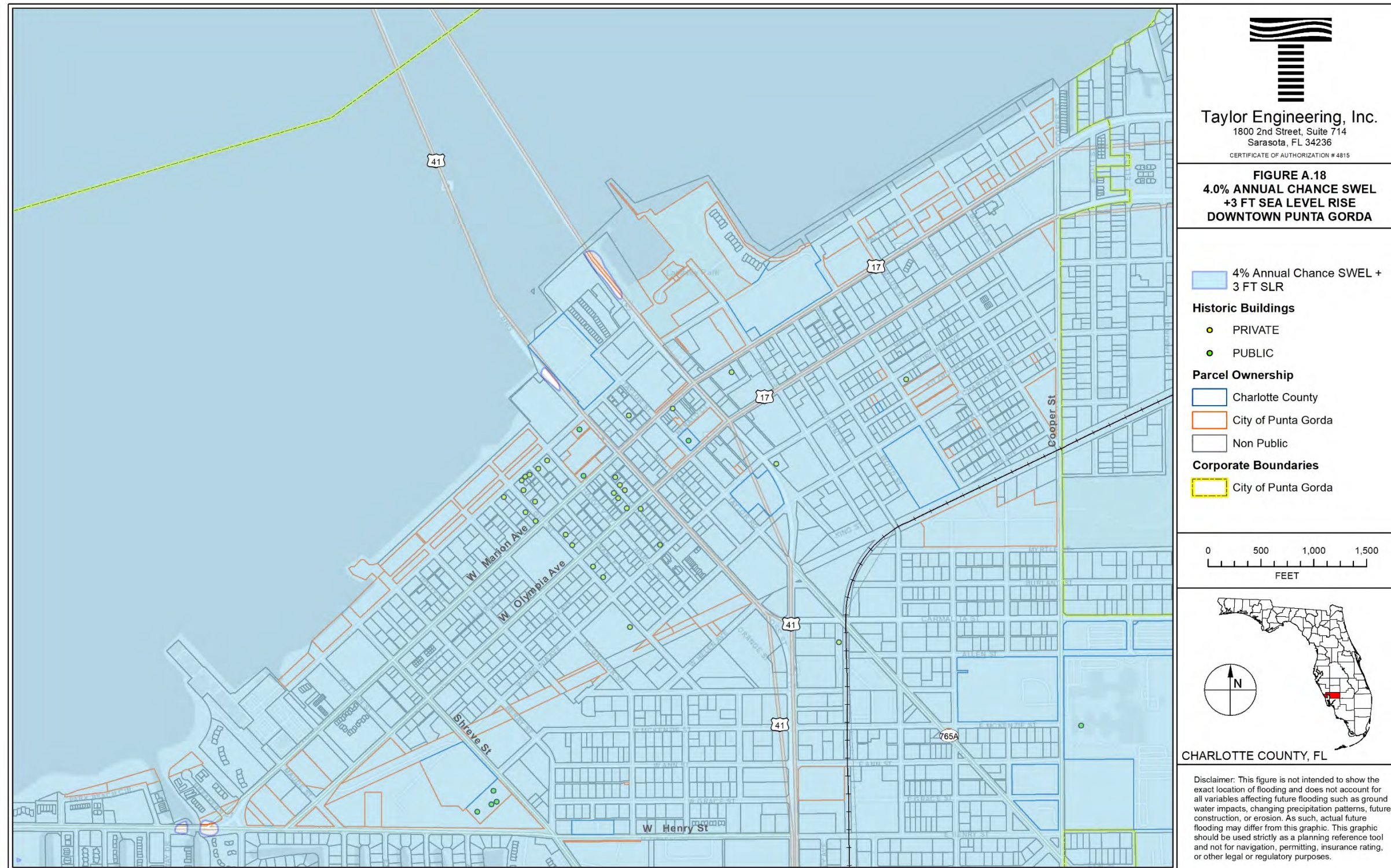


Figure A.18 4% Annual Chance SWEL + 3.0-Ft Sea Level Rise, Downtown Punta Gorda

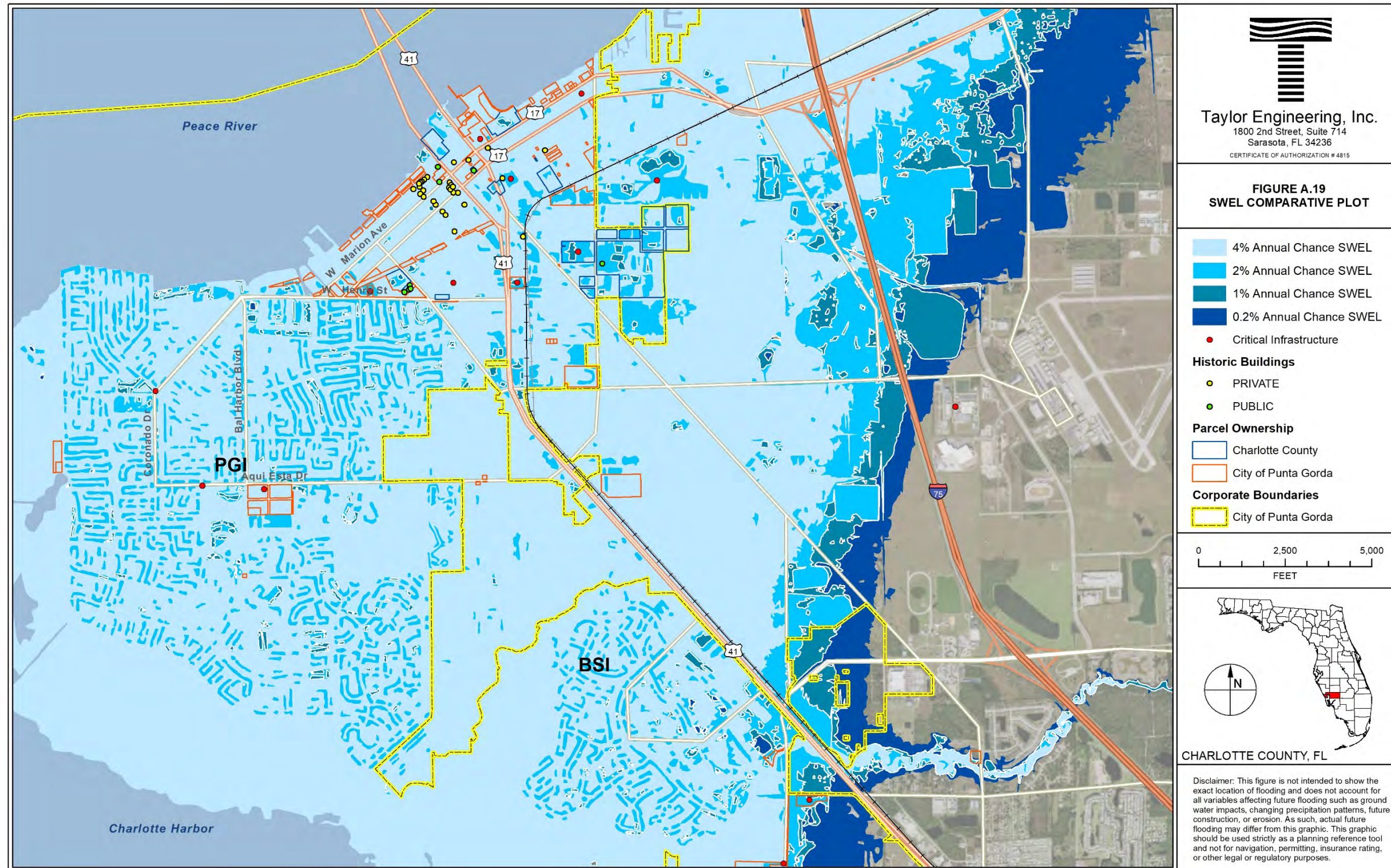


Figure A.19 SWEL Comparative Plot

Table A.1 Elevation Certificates Provided by The City

| Address # | Street Name | Building Descriptor | FFE | LAG | Date Built or Surveyed |
|-----------|--------------------|--|-------|------|------------------------|
| 2601 | Acline Rd | Seminole Lakes, Tract 1, Phase 1 | 11.71 | 10.4 | 2008 |
| 1623 | Aqui Esta Drive | Booster Station | 7 | 6.6 | 2000 |
| 1625 | Aqui Esta Drive | PGC | 13 | N/A | N/A |
| 4300 | Bailey Ave | Booster Station | 19.9 | 16.2 | 1984 |
| 30999 | Bermont Rd | Wastewater Treatment Plant (Generator/Maintenance Bldg) | 27.9 | 27.4 | 1984 |
| 10051 | Burnt Store Rd | Fire Station 2 | 9.2 | 6.8 | 1983 |
| 3130 | Cooper St | Cooper St Commerce Center (Utilities Administration) | 8.8 | 8.4 | 2009 |
| 3132 | Cooper St | Public Works Administration (NAVD88 Conversion=-1.18') | 8.4 | 8 | 2009 |
| 100 | E Retta Esplanade | Bldg #111, Harbormaster Bldg | 10.5 | 10.3 | 2007 |
| 100 | E Retta Esplanade | Bldg #2, Laishley Crabhouse Ctr (Aka 150 Laishley Ct) | 10.6 | 4.4 | 2009 |
| 126 | Harvey St | City Hall Annex | 16.6 | 5.9 | 1992 |
| 117 | Herald Court | Herald Court Garage | 5.6 | 5.5 | 2009 |
| 650 | Mary St | Cooper St Rec Center | 7.2 | 6.8 | 1985 |
| 650 | Mary St | Cooper St Rec Center Trabue Addition | 9.3 | 6.4 | 2009 |
| 802 | Retta Esplanade | Punta Gorda Boat Club-Shreve Park | 5.6 | 5.4 | 1965 |
| 1410 | S Tamiami Trail | Public Safety Bldg | 9.3 | 6.3 | 2002 |
| 900 | W Henry St | Public Works Customer Service (Master Pump Station) | 8.5 | 8.2 | 1972 |
| 326 | W Marion Ave | City Hall | 7.9 | 6.1 | 1927 |
| 260 | W Retta Esplanade | Museum Society | 5.3 | 3.9 | 1958 |
| 400 | W Retta Esplanade | Gilchrist Park Restroom (Required EI Of 13.3', Has A Flood Variance) | 5.39 | N/A | 2006 |
| 750 | W Retta Esplanade | Bayfront Center-Berry Park | 5 | 4.6 | 1963 |
| 975 | W Virginia Ave | Central Warehouse | 9.1 | 8.6 | 1989 |
| 1007 | W Virginia Ave | Canal Maintenance Office | 5.1 | 4.6 | 1955 |
| 38100 | Washington Loop Rd | Water Treatment Plant | 17 | 16.5 | 1971 |

Table A.2 Historic Properties with Inundation in the 12 Coastal Flooding Scenarios

"X" Indicates This Parcel Shows Some Degree of Flood Inundation at The Corresponding Flood Scenario.

| Name | Address | Account | Publicly Owned | MHHW | 1.5 Ft SLR | 3.0 Ft SLR | 4% Annual Chance Flood | 1% Annual Chance Flood | 0.2% Annual Chance Flood | 1.5 Ft SLR + 4% Annual Chance | 1.5 Ft SLR + 1% Annual Chance | 1.5 Ft SLR + 0.2% Annual Chance | 3.0 Ft SLR + 4% Annual Chance | 3.0 Ft SLR + 4% Annual Chance | 3.0 Ft SLR + 0.2% Annual Chance |
|------------------------------|-----------------------------------|--------------|----------------|------|------------|------------|------------------------|------------------------|--------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------------|-------------------------------|---------------------------------|
| HISTORIC RESIDENCE | 108 GILL ST | 412201480001 | | | | X | X | X | X | X | X | X | X | X | X |
| WOMENS CLUB OF PUNTA GORDA | 118 SULLIVAN ST | 412306355001 | | | | X | X | X | X | X | X | X | X | X | X |
| SMITH ARCADE BUILDING | 121 E MARION AVE -UNIT 125 | 412306331005 | | | | X | X | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 123 GILL ST | 412201479008 | | | | X | X | X | X | X | X | X | X | X | X |
| HISTORY PARK | 501 SHREVE ST | 412212280002 | Y | | | X | X | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 509 W RETTA ESPLANADE | 412201479002 | | | | X | X | X | X | X | X | X | X | X | X |
| CHARLOTTE HS/MS | 1001 EDUCATION AVE | 412308151001 | Y | | | | | X | X | X | X | X | X | X | X |
| PUNTA GORDA RAILROAD DEPOT | 1009 TAYLOR RD | 412307202005 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 122 GILL ST | 412306351001 | | | | | | X | X | X | X | X | X | X | X |
| CITY HALL ANNEX | 126 HARVEY ST | 412306353004 | Y | | | | | X | X | X | X | X | X | X | X |
| AC FREEMAN HOUSE | 126 HARVEY ST | 412306353004 | Y | | | | | X | X | X | X | X | X | X | X |
| FIRST NATIONAL BANK BUILDING | 128 HERALD CT | 412306376005 | | | | | | X | X | X | X | X | X | X | X |
| DUPLEX/RESIDENTIAL | 212 GILL ST -UNIT B | 412306356004 | | | | | | X | X | X | X | X | X | X | X |
| OLD SCHOOL HOUSE APTS | 215 GOLDSTEIN ST | 412306358012 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 219 GOLDSTEIN ST | 412306358013 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 224 GILL ST | 412306356006 | | | | | | X | X | X | X | X | X | X | X |
| OLD COURTHOUSE | 226 TAYLOR ST | 412306378001 | Y | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 231 GOLDSTEIN ST | 412306358015 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 302 GOLDSTEIN ST | 412306364001 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 310 GILL ST | 412307106002 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 331 GOLDSTEIN ST | 412306363010 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 350 GILL ST | 412307106004 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 401 W RETTA ESPLANADE | 412306352002 | | | | | | X | X | X | X | X | X | X | X |
| FIRST BAPTIST CHURCH | 403 GILL ST | 412307111008 | | | | | | X | X | X | X | X | X | X | X |
| BLANCHARD HOUSE | 406 DR MARTIN LUTHER KING JR BLVD | 412306415001 | | | | | | X | X | X | X | X | X | X | X |
| ICEHOUSE | 408 TAMIAM TRL | 412306388001 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 413 W RETTA ESPLANADE | 412306352001 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 451 W RETTA ESPLANADE | 412201480005 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 455 W RETTA ESPLANADE | 412201480004 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 459 W RETTA ESPLANADE | 412201480003 | | | | | | X | X | X | X | X | X | X | X |
| HISTORIC RESIDENCE | 502 W MARION AVE | 412201479010 | | | | | | X | X | X | X | X | X | X | X |

Table A.3 Critical Facilities with Inundation in the 12 Coastal Flooding Scenarios.

"X" Indicates This Parcel Shows Some Degree of Flood Inundation at The Corresponding Flood Scenario.

| Name | Address | Account | Publicly Owned | Within City Limits | MHHW | 1.5 Ft SLR | 3.0 Ft SLR | 4% Annual Chance Flood | 1% Annual Chance Flood | 0.2% Annual Chance Flood | 1.5 Ft SLR + 4% Annual Chance | 1.5 Ft SLR + 1% Annual Chance | 1.5 Ft SLR + 0.2% Annual Chance | 3.0 Ft SLR + 4% Annual Chance | 3.0 Ft SLR + 1% Annual Chance | 3.0 Ft SLR + 0.2% Annual Chance |
|----------------------------------|--------------------------|--------------|----------------|--------------------|------|------------|------------|------------------------|------------------------|--------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------------|-------------------------------|---------------------------------|
| FIRE STATION III | 1623 AQUI ESTA DR | 412213301001 | Y | Y | | X | X | X | X | X | X | X | X | X | X | X |
| SHELL CREEK RESERVOIR | 38171 WASHINGTON LOOP RD | 402420400001 | Y | | | X | X | X | X | X | X | X | X | X | X | X |
| PG WATER TANK | 10401 BURNT STORE RD | 412329434001 | Y | Y | | X | X | | X | X | X | X | X | X | X | X |
| US POST OFFICE PG | 130 E MARION AVE | 412306328008 | Y | Y | | | X | X | X | X | X | X | X | X | X | X |
| BAYFRONT HEALTH PUNTA GORDA | 809 E MARION AVE | 412306284002 | | Y | | | X | X | X | X | X | X | X | X | X | X |
| LIFT STATION | 1421 MCGREGOR ST | 412307156018 | Y | Y | | | | X | X | X | X | X | X | X | X | X |
| LIFT STATION | AQUI ESTA DR | 412214426001 | Y | Y | | | | X | X | X | X | X | X | X | X | X |
| ELECTRIC TRANSFORMERS | W MARION AVE | 412211455001 | Y | Y | | | | X | X | X | X | X | X | X | X | X |
| POLICE & FIRE DEPARTMENT | 111 E ANN ST | 412307258001 | Y | Y | | | | | X | X | X | X | X | X | X | X |
| FPL MAINTENANCE AREA | 122 E CHARLOTTE AVE | 412306452001 | | Y | | | | | X | X | X | X | X | X | X | X |
| SALLIE JONES ELEM SCHOOL | 1230 NARRANJA ST | 412307277001 | Y | Y | | | | | X | X | X | X | X | X | X | X |
| FIRE STATION II | 2601 ACLINE RD | 412328151002 | Y | Y | | | | | X | X | X | X | X | X | X | X |
| SOUTH COUNTY REGIONAL PARK | 670 COOPER ST | 412305376001 | Y | | | | | | X | X | X | X | X | X | X | X |
| PG WASTEWATER STATION | W HENRY ST | 412212280003 | Y | Y | | | | | X | X | X | X | X | X | X | X |
| FPL SUB STATION | 11521 BURNT STORE RD | 412332476001 | | Y | | | | | X | X | | X | X | X | X | X |
| COUNTY JAIL/EMERGENCY OPERATIONS | 26571 AIRPORT RD | 412316200006 | Y | | | | | | | X | | X | X | | X | X |
| WATER TREATMENT FACILITY | 38100 WASHINGTON LOOP RD | 402429100009 | Y | | | | | | | | | X | X | | X | X |

Table A.4 Estimated Economic Impacts on Critical Infrastructure at the 1% Annual Chance Flood

| NAME | ADDRESS | ACCOUNT | 2019 BUILDING VALUE | YEAR BUILT | EST. FLOOD DAMAGE AT 1% ANNUAL CHANCE FLOOD |
|----------------------------------|--------------------------|--------------|---------------------|-------------|---|
| FIRE STATION III | 1623 AQUI ESTA DR | 412213301001 | \$711,061 | 1996 | \$158,567 |
| SHELL CREEK RESERVOIR | 38171 WASHINGTON LOOP RD | 402420400001 | unavailable | unavailable | no bldg value |
| PG WATER TANK | 10401 BURNT STORE RD | 412329434001 | unavailable | unavailable | no bldg value |
| US POST OFFICE PG | 130 E MARION AVE | 412306328008 | \$1,784,831 | 1974 | no FFE |
| BAYFRONT HEALTH PUNTA GORDA | 809 E MARION AVE | 412306284002 | \$9,726,372 | 1956 | no FFE |
| LIFT STATION | 1421 MCGREGOR ST | 412307156018 | \$655 | 1966 | no FFE |
| LIFT STATION | AQUI ESTA DR | 412214426001 | unavailable | unavailable | no bldg value |
| ELECTRIC TRANSFORMERS | W MARION AVE | 412211455001 | unavailable | unavailable | no bldg value |
| POLICE & FIRE DEPARTMENT | 111 E ANN ST | 412307258001 | \$2,484,054 | 2002 | \$553,944 |
| FPL MAINTENANCE AREA | 122 E CHARLOTTE AVE | 412306452001 | \$569,317 | 1960 | no FFE |
| SALLIE JONES ELEM SCHOOL | 1230 NARRANJA ST | 412307277001 | \$15,177,240 | 2003 | no FFE |
| FIRE STATION II | 2601 ACLINE RD | 412328151002 | \$1,210,368 | 2008 | no flooding |
| SOUTH COUNTY REGIONAL PARK | 670 COOPER ST | 412305376001 | \$354,824 | 2005 | no FFE |
| PG WASTEWATER STATION | W HENRY ST | 412212280003 | \$105,693 | 1984 | \$24,626 |
| FPL SUB STATION | 11521 BURNT STORE RD | 412332476001 | \$5,676 | 1992 | no FFE |
| COUNTY JAIL/EMERGENCY OPERATIONS | 26571 AIRPORT RD | 412316200006 | \$56,546,018 | 2000 | no FFE |
| WATER TREATMENT FACILITY | 38100 WASHINGTON LOOP RD | 402429100009 | \$1,200,821 | 1971 | no flooding |