

# FINAL ENGINEERING INSPECTION CHECKLIST



## CITY OF MIRAMAR OFFICE OF OPERATIONAL SERVICES

Permit No.: \_\_\_\_\_  
Project Name: \_\_\_\_\_

**This document is intended to set minimum City inspection criteria. Additional criteria may be required.**

**The Contractor shall use this checklist to perform a final inspection. It is the Contractor's responsibility to provide personnel to perform the manual aspects of the inspection (i.e., opening manhole lids, turning gate valves, operating fire hydrants, etc.)**

A. Water Distribution System:

- \_\_\_\_\_ 1. All features shall be installed according to the approved plans.
- \_\_\_\_\_ 2. Fire Hydrants
  - \_\_\_\_\_ a. Height (18" to 24" from finished grade to nozzle)
  - \_\_\_\_\_ b. Direction (4-1/2" nozzle must face accessway)
  - \_\_\_\_\_ c. Distance (5' minimum to 10' maximum from curb)
  - \_\_\_\_\_ d. Fire hydrant must be plumb
  - \_\_\_\_\_ e. Reflective pavement markers
  - \_\_\_\_\_ f. Fire hydrant and fire hydrant gate valve shall be operational

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- \_\_\_\_\_ 3. Valves
- \_\_\_\_\_ a. Set to grade
  - \_\_\_\_\_ b. Concrete collar per City specifications
  - \_\_\_\_\_ c. Gate valves shall be operational
  - \_\_\_\_\_ d. Paint (paint valve box lid blue)
  - \_\_\_\_\_ e. Reflective pavement markers (place one (1) in the center of the adjacent drive lane)

### **B. Sewage Collection & Transmission System:**

- \_\_\_\_\_ 1. All features shall be installed according to the approved plans.
- \_\_\_\_\_ 2. Collection System:
- \_\_\_\_\_ a. Manhole rims shall be visible.
  - \_\_\_\_\_ b. Manhole rims shall be set to grade.
  - \_\_\_\_\_ c. Manhole rims shall be attached securely.
  - \_\_\_\_\_ d. Manhole rims shall be free of asphalt.
  - \_\_\_\_\_ e. Manhole interiors shall be painted with two (2) coats of approved paint.
  - \_\_\_\_\_ f. Manhole interiors shall be free of infiltration.
  - \_\_\_\_\_ g. All pipes shall be free of leaks and infiltration.
  - \_\_\_\_\_ h. Manholes located in grass areas shall have a concrete collar.
  - \_\_\_\_\_ i. Clean outs shall be set to grade.
- \_\_\_\_\_ 3. Force Main Transmission System:
- \_\_\_\_\_ a. Force main gate valves have concrete collars set to grade.
  - \_\_\_\_\_ b. Place green reflective pavement markers in the center of the adjacent drive lane.
  - \_\_\_\_\_ c. Air release valves and manholes shall be free of any defects.
  - \_\_\_\_\_ d. The pump station shall be in full operational condition.
  - \_\_\_\_\_ e. The pump station shall be operational.
  - \_\_\_\_\_ f. Pump station site shall be accessible by truck via paved driveway.
  - \_\_\_\_\_ g. All pump station fixtures shall be operational.
  - \_\_\_\_\_ h. Pump station site shall be fenced and landscaped.

### **C. Drainage System and Grading:**

- \_\_\_\_\_ 1. All features shall be installed according to the approved plans.
- \_\_\_\_\_ 2. Drainage structures, sumps, and pipes shall be free of debris.
- \_\_\_\_\_ 3. Catch basins outside paved areas shall have a concrete apron.

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- \_\_\_\_\_ 4. Outfalls shall be complete and clear of debris.
- \_\_\_\_\_ 5. Inlets shall be free of filter fabric.
- \_\_\_\_\_ 6. Lake, canal, or ditch banks shall be to grade and slope as per approved plans.
- \_\_\_\_\_ 7. Erosion protection measures shall be in effect.
- \_\_\_\_\_ 8. Pollution retardant device shall be in place as per approved plans.
- \_\_\_\_\_ 9. Grates shall be secure.
- \_\_\_\_\_ 10. Pollution baffles shall be in place as required.

### D. Pavement:

- \_\_\_\_\_ 1. All features shall be installed according to the approved plans.
- \_\_\_\_\_ 2. Alignments and cross-sections of all paved areas shall conform to the approved plans.
- \_\_\_\_\_ 3. Pavement:
  - \_\_\_\_\_ a. Pavement shall be clean.
  - \_\_\_\_\_ b. Pavement shall be free of potholes, cracks, and divots.
  - \_\_\_\_\_ c. Crown and grade of roadway shall conform to approved plans.
  - \_\_\_\_\_ d. Pavement markings and signage shall conform to the approved plans.
  - \_\_\_\_\_ e. Curbs shall be free of cracks and shall otherwise conform to the approved plans.
  - \_\_\_\_\_ f. Expansion joints shall conform to approved plans.
  - \_\_\_\_\_ g. Wheelchair ramps shall conform to approved plans.
  - \_\_\_\_\_ h. Parking spaces shall conform to approved plans.

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E. Miscellaneous:

- \_\_\_\_\_ 1. Work of other utilities shall be complete.
- \_\_\_\_\_ 2. Site lighting and street lighting shall be operational.
- \_\_\_\_\_ 3. Street signs and traffic signs shall be in place.
- \_\_\_\_\_ 4. Permanent reference monuments (PRM's) with elevations shall be in place.
- \_\_\_\_\_ 5. All existing facilities disturbed during construction shall be restored.

Inspected by: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_