

# ORANGE COUNTY PUBLIC WORKS DEPARTMENT DEVELOPMENT ENGINEERING DIVISION PLAN REVIEW SECTION

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FOR OFFICE USE ONLY:	
Permit Reference #:	

## SUBDIVISION CONSTRUCTION PERMIT APPLICATION (S-PERMIT)

Subdivision Name:						Date:			
PD Name:_									
PSP or CDR Ref. #				DRC Ap	proval Date:	BCC Approval Date:			
Parcel ID:									
	S (01-36)	T (20-24)	R	(27-34)	Sub (0000-9999)	Blk (00-99)	Lot (000-999)		
OWNER:		T (20-24) R (27-34) Sub (0000-9999) Blk (00-99) Lot (000-999) <b>ENGINEER:</b>							
Name:		Name:							
Company:_				Com	npany:				
Address:				Add	ress:				
City:		State:	Zip:	City:	<u> </u>	State:_	Zip:		
Phone:				Pho	ne:				
E-mail:			E-mail:						
Boa Con Pha Bou Civi Lan All r calc Engi	servation Area se I Environme ndary and topo I Engineering C dscape Plans. required supporulations as requineering, Environs	Commission impact permental Site Assographical surcentruction Forting docume uired by Publichmental Proeliverables (i	ners of nit (if requessment rvey. Plans. nts (dradic Work tection, new reconstitution)	ficial appr puired). inage calcu s Developr Traffic Eng quirement	oval conditions.  ulations, soils report, ment Engineering, Ut gineering, and the Off as described in the	ilities Developme	ent larshal.		
	olans, documer ns (PDF format				format. ut able to be half sca	le when printed	11x17.		

- -All Construction documents shall be signed, dated, and sealed by a FL Registered Professional Engineer, Landscape Architect or Professional Land Surveyor as required.
- -Plans will be reviewed by Public Works Development Engineering, Utilities Development Engineering, Environmental Protection, Traffic Engineering, Storm Water Management and the Office of the Fire Marshal.
- -Right-of-way utilization and/or underground utility permit(s) required prior to construction.
- -Track the application online at: <a href="https://fasttrack.ocfl.net/OnlineServices/default.aspx">https://fasttrack.ocfl.net/OnlineServices/default.aspx</a>

#### **DELIVERABLE DIRECTORY STRUCTURE**

```
01_ConstructionPlans
     3D_Surface_Files
     CADD
     GIS
     PDFs
02_RecordDrawings
     3D Surface Files
     CADD
     GIS
     PDFs
03_SurveyData
     CADD
     GIS
     Other
     PDFs
     Post_Construction_LiDAR
04_ModelNetwork
     CADD
     GIS
     PDFs
05_ModelData
     Existing_Condition
        Model_Files
        PDFs
     Proposed_Condition
        Model_Files
        PDFs
06_ReportDocumentation
07 Misc
```

#### REQUIREMENT FOR DEVELOPMENT\* THAT IS LESS THAN 10 ACRES

#### **01\_ConstructionPlans**

- Full set of construction plans as a single PDF
  - Vertical datum must be based on North American Vertical Datum of 1988 (NAVD88) and clearly identified on plans.
  - OPTIONAL/PREFERRED Table of contents hyperlinked to the individual sheets
- OPTIONAL/PREFERRED Full set of construction plans as CADD files (e.g., AutoCAD or Microstation)
- OPTIONAL/PREFERRED 3D surface files for design condition

#### 02 RecordDrawings

- Full set of record drawings as a single PDF
  - Vertical datum must be based on North American Vertical Datum of 1988 and clearly identified on plans.
  - **OPTIONAL/PREFERRED** Table of contents hyperlinked to the individual sheets.
- OPTIONAL/PREFERRED Full set of record drawings as CADD files

#### 03\_SurveyData

- OPTIONAL/PREFERRED Survey data as PDF files
- OPTIONAL/PREFERRED Survey data as CADD files
- OPTIONAL/PREFERRED Other survey data (sketches, GIS, etc.)
- OPTIONAL/PREFERRED Post construction LiDAR bare earth point cloud (Vertical datum must be based on NAVD88. Should be consistent with the most current USGS LiDAR Base Specification for Quality Level QL-1. The acquisition and processing approach as well as the resulting data standards and accuracies should be certified by a licensed PSM)

#### 04\_ModelNetwork

- Model network (both existing and proposed condition)
  - Nodes, links, and basins labeled with IDs consistent with the model input
  - Model elements must be properly geospatially represented in a GIS (i.e., shapefiles or a geodatabase), CADD, or PDF (to scale) format (OC GWIS GIS data structure is preferred). Note: Feature names/IDs must match those used in the model.
  - The data must be provided in the following horizontal coordinate system designated by Orange County:
    - NAD\_1983\_StatePlane\_Florida\_East\_FIPS\_0901\_Feet

#### 05 ModelData\Existing Condition

The County either has developed or is in the process of developing watershed models for the major basins in the county using ICPR. While ICPR is the preferred model tool for the County, other surface water modeling software tools may be used.

- Model input files
  - The following example naming convention is suggested...e.g. ProjName\_PRE.zzz
  - The Simulation dialog comments should indicate the project name, existing condition, the storm simulated, the date of the final simulation, and any other pertinent information.
- Model output files
  - The following example naming convention is suggested...e.g. ProjName\_PRE\_100yr24hr, etc.
- A listing of all model filenames along with a description of the models must be provided as a PDF (e.g., ProjectName\_ModelFileSummary.pdf).
- Model input and output data as PDFs

#### 05\_ModelData\Proposed\_Condition

- Model input files
  - The following example naming convention is suggested...e.g. ProjName POST.zzz
  - The Simulation dialog comments should indicate the project name, proposed condition, the storm simulated, the date of the final simulation, and any other pertinent information.
- Model output files
  - The following example naming convention is suggested...e.g. ProjName\_POST\_100yr24hr, etc.
- A listing of all model filenames along with a description of the models must be provided as a PDF (e.g., ProjectName\_ModelFileSummary.pdf).
- Model input and output data as PDFs.

#### 06\_ReportDocumentation

- Provide copies of any reports submitted as PDFs (drainage report / calculations, geotechnical report, WMD permit application, etc.)
- Supporting documentation for calculations (e.g., time of concentration, CN, stage-area, etc.)
- **OPTIONAL/PREFERRED**: raw calculation files for model parameters (e.g., time of concentration, CN, stage-area, etc.)

#### 07\_Misc

GIS feature class or CADD file with a polygon feature that defines the areal extent of the project and provides the
following information: Project Name, Developer Name, EOR Name, Date Submitted to County, Basin Name, S-T-R,
Commissioner District, OC Maintenance District, Water Management District. The County will provide a blank
shapefile with the required fields upon request.

### REQUIREMENT FOR DEVELOPMENT\* THAT IS 10 ACRES OR MORE

#### 01\_ConstructionPlans

- Full set of construction plans as a single PDF
  - Vertical datum based on North American Vertical Datum of 1988 and clearly identified on plans.
  - OPTIONAL/PREFERRED Table of contents hyperlinked to the individual sheets
- Full set of construction plans as CADD files
- OPTIONAL/PREFERRED 3D surface files for design condition

#### 02\_RecordDrawings

- Full set of record drawings as a single PDF
  - Vertical datum based on North American Vertical Datum of 1988 and clearly identified on plans.
  - **OPTIONAL/PREFERRED** Table of contents hyperlinked to the individual sheets.
- Full set of record drawings as CADD files (in AutoCAD or Microstation format)

#### 03\_SurveyData

- Survey data as PDF files
- Survey data as CADD files
- Other survey data (sketches, GIS, etc.)
- OPTIONAL/PREFERRED Post construction LiDAR bare earth point cloud (Vertical datum must be based on NAVD88. Should be consistent with the most current USGS LiDAR Base Specification for Quality Level QL-1. The acquisition and processing approach as well as the resulting data standards and accuracies should be certified by a licensed PSM)

#### 04\_ModelNetwork

- Model network (both existing and proposed condition)
  - Nodes, links, and basins labeled with IDs consistent with the model input
  - Geospatially represented in a GIS format (i.e., shapefiles or a geodatabase; OC GWIS GIS data structure is preferred). Note: feature names/IDs must match those used in the model.
  - The data must be provided in the following horizontal coordinate system designated by Orange County:

NAD\_1983\_StatePlane\_Florida\_East\_FIPS\_0901\_Feet

#### 05\_ModelData\Existing\_Condition

The County either has developed or is in the process of developing watershed models for the major basins in the county using ICPR. ICPR is the preferred model tool for the County and is required to be used by the developer.

- Model input files
  - The following example naming convention is suggested...e.g. ProjName\_PRE.zzz
  - The Simulation dialog comments must indicate the project name, existing condition, the storm simulated, the date of the final simulation, and any other pertinent information.
- Model output files
  - The following example naming convention is suggested...e.g. ProjName\_PRE\_100yr24hr, etc.
- A listing of all model filenames along with a description of the models must be provided as a PDF (ProjectName\_ModelFileSummary.pdf).
- Model input and output data as PDFs.

#### 05\_ModelData\Proposed\_Condition

- Model input files
  - The following example naming convention is suggested...e.g. ProjName\_POST.zzz
  - The Simulation dialog comments must indicate the project name, proposed condition, the storm simulated, the date of the final simulation, and any other pertinent information.
- Model output files
  - The following example naming convention is suggested...e.g. ProjName\_POST\_100yr24hr, etc.
- A listing of all model filenames along with a description of the models must be provided as a PDF (*ProjectName\_ModelFileSummary.pdf*).
- Model input and output data as PDFs.

#### 06\_ReportDocumentation

- Provide copies of any reports submitted as PDFs (drainage report / calculations, geotechnical report, WMD permit application, etc.)
- Supporting documentation for calculations (e.g., time of concentration, CN, stage-area, etc.)
- **OPTIONAL/PREFERRED**: raw calculation files for model parameters (e.g., time of concentration, CN, stage-area, etc.)

#### 07 Misc

• GIS feature class with a polygon feature that defines the areal extent of the project and provides the following information: Project Name, Developer Name, EOR Name, Date Submitted to County, Basin Name, S-T-R, Commissioner District, OC Maintenance District, Water Management District. The County will provide a blank shapefile with the required fields upon request.

<sup>\*</sup> All development except for applicants with on SFR unit.