CITY OF ORLANDO AS-BUILT CLOSEOUT CHECKLIST

Use this checklist to follow the City of Orlando's Engineering Standards
Manual as required. These are the minimum requirements, there and if
additional information is needed to confirm the project was built properly it
can be requested by the City. Chapter 5 and 9 should be reviewed entirely!

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GE	ENERAL REQUIREMENTS
	The as-built survey data must be overlaid on the construction plan set that was approved for your project at the time of permit issuance (electronic files of the plans are the base data). <u>Including all plan and profile sheets.</u>
	Construction Plan information must be shown in grayscale with the <u>plan</u> <u>information depicted at the time of permit issuance untouched or unaltered.</u>
	The as-built survey must be to scale and match the plan scale information, survey data in bold and discernable from the plans.
	The as-built survey data must be in Florida State Plane Coordinates, Florida Zone East (0901), North American Datum (NAD) of 1983 (Adjustment based on published control) referenced to control. (CCR's, NGS, etc.)
Ш	The as-built survey data must be in North American Vertical Datum (NAVD) of 1988 and referenced to published control that must be referenced as to where the control came from. (City, NGS, etc.)
	The as-built survey must be prepared by a Florida Licensed Professional Surveyor and Mapper.
	The licensed surveyor must reference and replace any project control points, boundary corners, benchmarks, section corners and any control monuments that may be lost or destroyed.
	All CAD files containing as-built storm and sanitary improvements for both public and private
	construction must be drawn on a layer beginning with V-STRM for storm pipes, structures and hardware, and a layer beginning with V-SSWR for sanitary sewer pipes, structures and hardware.
CC	OVER PAGE
	The as-built survey data must be overlaid on the construction plans approved for your project.
	The cover page must be titled As-built Survey, if the as-built survey is a progressive survey it should be labeled as such. The final will be labeled Final As-built Survey at project completion.
	The Surveyor's Certification must be included on the survey. Electronic seals and signatures are not accepted at this time. Reference the Permit # for the Project.
	If there is an index on the cover sheet, bold page #'s containing as-built survey data.
	Only as-built survey data shown in bold, all plan information should be shown grayscale.
	The certification must qualify the purpose of the survey, horizontal and vertical datums and the last date in the field.
RE	QUIRED AS-BUILT INFORMATION
	The as-built survey clearly shows the designed and constructed locations and vertical data for ease of comparison between planned and constructed improvements.
	Planned improvements required as part of the as-built survey must include:
	 Storm and sanitary sewers and structures (including cleanouts), drainage conveyance systems and retention ponds, potable and reclaimed water mains and all cleanouts, meters, valves, force mains, gas mains and other utilities. Irrigation lines (2-inch and larger), process piping, electric and communication duct banks, traffic and pedestrian signals, pull boxes, cabinets, transformers, structures. Fences, pavement, curbs, sidewalks, driveways, appurtenances and buildings. The specified improvements noted above are the minimum requirements and if additional information is needed to confirm the project was built properly it can be requested by the City.
	If a structure information table is provided, the as-built information must be shown in or near table.
	Design call-outs shall have a strikethrough with as-built data provided in bold next to callout

 and must be labeled (or abbreviated "AB") and be shown in a bolder Pavement and drainage flow line elevation shots must be shown. As-built survey shots shall be taken at the same locations as shown or comparison. Any variations from required material sizes or types shall be any sheets that support the as-built survey or sheets that have as-built 	toxt that is completely legible	
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- · · · · · · · · · · · · · · · · · · ·	As-built survey shots shall be taken at the same locations as shown on the plans for ease of	
included. This includes the general notes, legend, site and civil, plar and tables (not typical sections), sheets with construct calls and other improvements to a specified value (stationing, coordinate values and necessary for a comparison to the planned values versus the complet	It data shown should be It and profile, structure detail It sheets that identify planned It vertical values) and are	
DIGITAL FILES		
 Digital files include CAD and PDF of the as-built survey that are subm Thumbdrive and are complete with all associated reference files. 	uitted on CD, DVD or	
All CAD files must be complete with reference files and any other down with the CAD files. Etransmit in Civil 3d	cuments and images associated	
$\ \square$ CAD files must be identically matching to the signed and sealed as-b	uilt survey.	
$\hfill \Box$ The submitted digital files must be in the original format of the plans.		
Microstation, etc. The City's preferred CAD platform is Autocad Civil		
The preferred CAD Standards of the City of Orlando is National CAD acceptable as long as the layers and data is easily discernible and ha pertinent information include with the submittal.		
I certify that I as signing surveyor and EOR, I have reviewed the requi	irements as defined in the Citv	
of Orlando's Engineering Standards Manual, 5th Edition, and that my		
Letter conforms to the requirements defined therein and highlighted by	y this checklist.	
Signature: Date:	T. I. I. D.	
Signing Surveyor/Engineer of Record (EOR) Additional Water Reclamation Requirements (Per Chapter 9 of the ESM):		
□ <u>CCTV Review</u> □ <u>Reclaimed Wa</u>		
	encies letter from reclaimed water	
deficiencies. inspector		
<u> </u>	d water inspector to verify as-	
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recorded on acceptable media depict no deficiencies. built surv	Description and ('strr)	
☐ City Lift Station ☐ Force Mains (
□ City Lift Station ○ Successful start-up attended by Water □ Force Mains (○ Pressure or Pressure	Test, certified by EOR	
□ City Lift Station □ Force Mains (○ Successful start-up attended by Water ○ Pressure (Reclamation representative(s). □ Letter of Project	Test, certified by EOR ect Completion	
□ City Lift Station □ Force Mains (○ Successful start-up attended by Water ○ Pressure (Reclamation representative(s). □ Letter of Projection ○ Lift Station electrical walkthrough: verify no ○ Letter from the projection	Test, certified by EOR	
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 □ City Lift Station □ Successful start-up attended by Water Reclamation representative(s). □ Letter of Projection of the City of the City	Test, certified by EOR ect Completion om EOR certifying installation of all has been installed in accordance pplicable City Standards including of Orlando Engineering Standards	
 ○ Successful start-up attended by Water Reclamation representative(s). ○ Lift Station electrical walkthrough: verify no deficiencies. ○ Verify Shop Drawings of LS Components have been reviewed by Water Reclamation Division. ○ Record Drawing of as-built condition of the lift 	Test, certified by EOR ect Completion om EOR certifying installation of all has been installed in accordance pplicable City Standards including of Orlando Engineering Standards ESM) and City Standards	
 ○ City Lift Station ○ Successful start-up attended by Water Reclamation representative(s). ○ Lift Station electrical walkthrough: verify no deficiencies. ○ Verify Shop Drawings of LS Components have been reviewed by Water Reclamation Division. ○ Record Drawing of as-built condition of the lift station site, wet well and valve configuration. 	Test, certified by EOR ect Completion om EOR certifying installation of all has been installed in accordance pplicable City Standards including of Orlando Engineering Standards ESM) and City Standards ter Details. The Engineer's	
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