	Project Name:	
	CCUA As-built CAD/0	GIS Standards Checklist
Name	of CAD Technician:	Date of review:
Docum	ent Sheet Number:	Review Number:
As-buil	t Number to be applied:	
	k box has been provided for all As-built CAD cations Standards. Put a line through any ch	Approval Checks called upon by the CCUA As-built ecks that do not apply to this As-built.
	<u>Drawing Preliminaries:</u>	
	Florida East Zone, NAD 83 (horizontal) and Check sheet size of 22"x34" Check for separate layout tabs. Check that all utilities are combined into a Check for missing Xrefs. Check for duplicate or overlapping objects Check for extra or unnecessary/unapprove All maps and reports of surveys with digitat of: <i>Map is intended to be displayed at</i>	(OVERKILL). ed layers or blocks (PURGE). al coordinate files contain a statement to the effect a scale of 1" = XX'.
	As-built certification blocks for engineer a Scales range between 1" =10' to 1" = 60' (Lot numbers and/or ownership data (not a Street numbers/Road names Scale and North arrow Location, elevation, datum and benchmar All related As-builts contain continuations	unless a different scale has been approved by CCUA) adjoining lots—only subject property)
	callouts.	levation in properties dialog). rating (i.e., 8" DR21 PVC, etc.)) are identified with rous through all bend, sleeves and meter block fittings.

- ☐ Polylines are broken at each of the following:
 - Valves (not including Air Release Valves)
 - Reducers

o Reclaim

• Tees, Taps and Crosses (including Fire Hydrant Tees)

- Caps (Tapped Caps)
- Manholes
- Clean-outs
- R.P.Z., B.F.P. (Back-flow Preventer)

☐ Are placed on their appropriate layers/colors.

☐ Check that all of the fitting blocks are a consistent scale size across the drawing.

☐ All AutoCAD drawing text annotation, details, and dimensions are shown in model space, and any block entities shown in separate, isolated (non-spatial) details must be exploded.

☐ Check that all fitting blocks are rotated in the direction of the pipe flows.

- In-line Ball Valve
- Point of service
- Check Valves (including Double Detector Check Valves)
- Adapter Couplings (including HDPE-to-PVC, HYMAX and Type of Material Transition Points, etc.)

•	All other service polylines are connected with no broken segments.	
All Gra	vity main lines:	
	Are entered as a single line (not broken)	
	Are digitized in the direction of the design flow (the beginning point of every line is the	
	upstream end, and the ending point of every line is the downstream end)	
	Identify length and scope information of the mains	
	Block elevations in call-outs match both Asset Table elevations and survey elevations	
	Main are broken at manholes and ends snapped to center nodes as required.	
	On all manholes that have radial service lateral penetrations (i.e., in cul-de-sacs or end-	
	of-pipe runs), check for the service lateral inverts in the call outs, and if added to the	
	asset table manhole data.	
All Force main lines:		
	Are entered as a single line (not broken)	
	Are broken at required fittings as shown above	
All text	and dimensions:	
Is mask	ed or uses wipeout, and properly aligned. Uses CCUA standard dimension style (Arial	
font) lo	ocated within the CCUA template.	
☐ Is visible on the drawing with the base set to the upper left-hand corner of the text which clear of linear or block features.		
		Labels are placed onto a separate layer, not on the feature layer.
Labels are properly rotated for easy legibility (horizontal alignment).		
Check that the text call-outs for the fittings are in the correct CCUA Annotative Style formats.		
Check that the dimensions tie-down styles shown are in the correct CCUA style and font		
format	5.	
Check that the lot numbers and road name text fonts are the approved CCUA Annotative Text		
styles.		
Check t	hat the primary units of the annotative dimensions in "feet and inches" format, not	
survey	tenths of a foot.	
Feature	es and blocks:	
	All Gra	

	Blocks comply with the available CCUA tool palette.	
	Asset Table:	
	Asset Table Worksheet contains an inventory of items installed, is complete via a Block Count,	
	and corresponds to the sequential Feature ID that has been added to said blocks.	
	Check that all of the blocks shown in the drawing are actually present in the asset table.	
	Check that the fittings sizes in the asset table match the actual mains connected to them and	
_	the text call-outs also match the asset table listings.	
	Insure all of the Feature IDs in either the asset table or the block properties letter cases match between them, i.e., wm_valve_xx (lower case) should be the same in the asset table and in the block properties, or conversely WM_VALVE_XX (upper case) should be the same between both	
	data sources; it does not matter which case is used, as long as they match in both places. Check that all of the 90 and 45 bend fitting blocks that are in the turned, vertical, or stacked orientation (i.e., not lying flat or horizontal) are replaced by the correct CCUA turned bend block as shown in the CCUA block palettes; the Feature IDs for these bends also need to be updated to	
	the correct "turned" designation as shown in the Appendix A of the CCUA Specifications Manual. Show only the privately-owned RPZ fittings, check valve fittings and connecting manholes and/or cleanout fittings in the asset table; although CCUA does not require privately-owned fittings to be listed in the asset table, adding these items to the table helps CCUA in maintaining the most up-to-date information in its GIS and asset management systems at these points of	
	connections.	
	Polylines:	
	Does not contain cut/broken lines behind text.	
	Are continuous from structure to structure (except for items listed above).	
	All end points of polylines are snapped to the end points of connecting polylines, with a	
	structure/fitting block center node being snapped to the end point as required.	
	All drawings contain no exploded blocks (except in details/ 'blow-ups').	
	Layers:	
	Standards guidelines.	
☐ Check that any existing mains used for connections are shown in the correct layer; these lin		
	need to be placed in the layer(s) corresponding with their sizing that has the suffix of "EX" (for Existing); these layers can be copied from the existing pipe size layers, and the suffix changed to	
	"EX" so that the CCUA GIS integration does not confuse old (existing) pipes already in the system with new (as-built) pipes being added to the system.	
Directional drills include:		
	☐ Profiles on the drawing for the engineer.	
	☐ Drill logs provided in PDF format as a separate item or attachment.	
	Pump Stations:	
	☐ Pump Station plans include boundary data (platted bearings and distances, unless	
	privately owned).	
	☐ Check that the pump station site plan detail matches the actual existing plan.	

	Ownership transferred Pump Stations (private-to-CCUA), new Treatment Plants, and well sites include separate boundary survey, or partial boundary surveys, as the case demands (unless private).
	nates: nate points on utility mains are included (at all pipe dead ends, size changes, points of tion to existing system, fittings (bends, valves, tees, plugs, etc.), at intersections of pipe)): Water mains – every 100 Feet Reclaimed and force mains – every 500 Feet Nearest fitting or structure (whichever is less than above)
<u>Dimen</u> : □	Dimension measurements (two (2) per structure, or stations and offsets (if approved by CCUA); no diagonal ties or ties to drainage structures or power poles are accepted (unless approved by CCUA).