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Rev. 12/15/2015		l slopes on profile	Rev. 12/15/20

Plan a	and Profile (Cont.)
V	erify stationing for items on plan matches profile (FHs, Air Vacs, etc.)
	Call out grade breaks, Grade breaks cannot be placed at fittings
	Show property lines for lots
V	/erify that services don't interfere w/ driveway approaches
P	Place air vac valves at high points
	Call out all fittings
	Callout easements for water facilities ("20-foot wide easement dedicated to VWD")
	Show all or applicable construction notes
	An RP device is required directly after the meter, FIRE Service must denote Make & Model of RP
	f vault or piping outside public ROW, call out 5' easement all around, shown with dash line
	On-site piping after RP's is not DISTRICTS, checked by DEVELOPMENT
	ion and Clearance
V	erify that all existing pipelines are shown and are correct (check AutoCAD Atlas)
3	6" min cover on 8" lines from top of pipe to top of pavement
4	2" min cover on 12" and larger lines
	within reason, keep cover not more than 2-3 feet below minimum
	f min cover can not be met, consider using ductile iron pipe w/ 30" cover (case by case)
	f it involves an existing line (PVC, DIP, AC) and cover can't be met check with Frank
	0' horizontal separation between water and sewer/storm drains (Includes mains, laterals and manholes)
	"vertical separation between water and sewer laterals when sewer is below
	Standard water main location = 5' from curb, Use 7' in case of Cross Gutter Interference
	ight poles require 3' clearance from meter box/valves
	Maintain 5' min between F.H. and exposed obstruction (air vac, street light, etc.)
	rial & Sizing
V	Vater main: 8" Min 8" to 12": PVC C900, Class 305
	14" to 48: PVC C905, Class 305
	All Sizes: DIP, Class 250/350 Asphalt Coated
	Service Line: Min. 4" to 12": PVC C900, Class 305
M	Ainimum PVC pipe bending radius = 300 times the pipe diameter
	Sate Valve for 8" lines
В	Butterfly Valve for 12" line or larger (except hot taps- always use tapping gate valves)
	All BFVs must be FL x FL w/ FL adaptor
-	alves must be flanged directly to tee or other fitting, no in-line valves
	" tapping valve for FH's.
	For Hot Taps, include a stainless steel tapping sleeve, 8" tapping valve and concrete thrust block.
	ained Joints
-	Restrained joints required, thrust blocks permitted by special permission only
	Restrain fittings and adjacent pipe as required. Restrain dead ends. 10' Min. each side of Hydrant
-	Restrain all joints in curves less than 380' radius
	Restrain SD under-crossings per W-37 or W-38
I	f they don't use our minimum RJ lengths, they must submit calcs to use less
Fire H	lydrants
	300 ft spacing preferred for FH (allowable range: 250 to 350 ft)
	Place F.H. on lot lines or 4' off end of curve radius
	Maintain 5' min. between F.H. and exposed obstruction (Air Vac., Street Light, etc.)
	Blow-off hydrant required at <u>ultimate</u> low points only on 16" and larger lines (case by case, 4" and larger)
	Blow-off hydrants at storm drain inverts (case by case)
	Adjust existing FH or other existing facilities to new sidewalk
Tie-Ir	ns and Phase Breaks
P	Place valves and hydrants at phase breaks where services are affected (case by case)
	NO TEMPORARY FHS
	f no services affected, use end cap w/ temporary blow-off
	nstall test plates at connections to old pipes and valves (test plates must be called out)
	lard Drawings
I	nclude all current & applicable VWD standard drawings on the last sheet
	Provide Engineers Cost Estimate