TECHNICAL APPENDIX CHECKLIST FOR FLOOD HAZARD AREA DELINEATION STUDIES

Instructions:

- 1. Engineer shall submit a completed copy of this checklist with the technical appendix submittal
- 2. For deviations from checklist, include a separate sheet with numbered comments and write the corresponding number in the "Note #" column

Notes:

- 1. Bold text represents the technical appendix folders
- 2. Italicized text represents individual files
- 3. Indentations represent folders or files within folders
- 4. Folder and file naming shall match those shown in this checklist
- 5. Text included in parenthesis is for information only and should not be included in folder or file names

	FOLDER AND FILE NAMES	NOTE#
	FHAD and/or DFIRM (if required)	
	FHAD [Drainageway Name] (entire final report PDF)	
	AutoCAD Files	
	FHAD	
	FHAD Flood Maps	
	Flooding Elements	
	FHAD 100-Year Floodplain (existing infrastructure and future land use conditions)	
	FHAD 500-Year Floodplain (existing infrastructure and future land use conditions)	
	FHAD Floodway (0.5')	
	Cross Sections	
	Cross Section Text	
	Cross Section Symbol	
	FHAD Base Flood Elevations (BFEs - specify datum)	
	FHAD BFE Text	
	Study Limits	
	Structure Elements	
	Stream Centerline	
	Centerline Stationing	
	Culverts	
	Bridges	
	Foot Bridges	
ΦD	Other Structures	
FHAD	Structure Text	
	Base Map Elements	
	Roads	
	Road Text	
	Railroads	
	Railroad Text	
	Buildings	
	Major Contours (specify datum)	
	Minor Contours (specify datum)	
	Water Bodies (Lakes, ponds, etc.)	
	FHAD Flood Profiles	
	FHAD 100-Year Flood Profile (existing infrastruture and future land use conditions)	
	Other Flood Profiles [typically 10-year, 50-year, and 500-year] (existing infrastruture and future land use conditions)	
	Thalweg (stream bed) profile	
	Cross Section Text	
	Cross Section Year	
	Structures	
	Axis labels (provide datum reference for elevations)	
	Grid lines	
	Text (Stationing, elevations, hydraulic structures, pertinent peak discharges)	
	Match lines	
	water mes	

	Any other figures included in the FHAD report, clearly labeled with the figure title	
	XREFs (optional, if not inserted into the final plans due to large file sizes)	
	Existing Base (i.e. planimetrics)	
	Existing Mapping (i.e. parcels, street centerlines, etc.)	
	Existing Topography (specify datum)	
	Existing Utilities	
	Any other XREFs used, clearly labeled with "Existing" or "FHAD"	
	If all existing XREFs are included in one drawing, label the drawing "Existing")	
	FHAD Supplemental Information	
	Models	
	Include all additional models used in the FHAD (other than models included in the "Hydrology" and	
	"Hydraulics" folders). Clearly label models with "FHAD"	
	Spreadsheets	
	Agreement Table	
	Floodplain Data Table	
	Include any other spreadsheets used for the FHAD. Spreadsheets may include tables used for final report, UDFCD worksheets, etc. Remove extraneous information from spreadsheets and clearly label spreadsheets with "FHAD"	
	Other	
	Include any other information used in the FHAD. Additional folders may be added, or files with clearly marked names may be added to an "Other" folder	
	GIS Files	
_	Flooding Elements	
	FHAD 100-Year Floodplain (existing infrastructure and future land use conditions)	
	FHAD 500-Year Floodplain (existing infrastructure and future land use conditions)	
	FHAD Floodway (0.5')	
	Cross Sections	
	Cross Section Text	
FHAD	Cross Section Symbol	
ᇤ	FHAD Base Flood Elevations (BFEs - specify datum)	
	FHAD BFE Text	
l ŀ	Study Limits	
	Structure Elements	
	Stream Centerline	
	Centerline Stationing	
	Culverts	
	Bridges	
	Foot Bridges	
	Other Structures	
H	Structure Text	
	Base Map Elements	
	Roads	
	Road Text	
	Railroads	
	Railroad Text	
	Buildings	
	Major Contours (specify datum)	
	Minor Contours (specify datum)	
	Water Bodies (Lakes, ponds, etc.)	
	Hydraulics	
	HEC-RAS v. XXX (i.e. HEC-RAS v. 4.1.0)	
	HEC-RAS Cross Sections	
	Include final FHAD HEC-RAS model with FHAD files only, labeled as such. Include (for HEC-RAS) the Project (.prj) file, with each Plan clearly identified (multiple-profile and floodway at a minimum); and all input data files used to analyze pertinent Plans [plan files (.p0#) with corresponding geometry (.g0#) and flow (.f0#) files (complete with file dates)]. Include a description for the FHAD model Plans that states the conditions (existing infrastructure, future land use hydrology, multiple-profile, floodway, etc).	

	Other	
	Include any other information used in the FHAD hydraulic analysis (special culvert hydraulics, all rating curve calculations, etc.). Additional folders may be added, or files with clearly marked names may be added to an "Other" folder	
FHAD	(If no MDP/OSP with FHAD: Include same items listed for Baseline hydrology from Major Drainageway Planning checklist (but only 10-year, 50-year, 100-year, and 500-year information required); otherwise, include only if 500-year models are different than baseline hydrology models)	
	CUHP XXXX - v. XXX (i.e. CUHP 2005 - v. 1.3.3)	
	Input Files	
	[Drainageway Name] FHAD 500-Year CUHP Input	
	FOLDER AND FILE NAMES	NOTE #
	Output Files	
	[Drainageway Name] FHAD 500-Year CUHP Output	
	EPA SWMM XXX - v. XXX (i.e. EPA SWMM 5.0 - v. 5.0.022)	
	Input Files	
	[Drainageway Name] FHAD 500-Year EPA SWMM Input	
	Output Files	
	[Drainageway Name] FHAD 500-Year EPA SWMM Output	
	Spreadsheets	
8	Include any spreadsheets used for FHAD 500-year hydrology. Spreadsheets may include tables used for	
FHAD	Other	
_	Include sketches/description of outlet works/supporting calculations for any Regional Detention Facility included in the FHAD (or DFIRM) hydrology. Require rating curves for stage versus volume and stage versus discharge.	
	Include any other information used in the FHAD 500-year hydrology. Additional folders may be added, or files with clearly marked names may be added to an "Other" folder	
	Report Documents	
	[Drainageway Name] FHAD (in Word format)	
	Include any other final report documents not included in another section	_