FPHP Applicant Checklist – <u>Installing or Replacing Structure</u> in Type S or F Water:

(Letters and numbers [xn] correspond to labels on example plans available on the DNR Website)

	Information required for all drawings:		ite Plan; including:
	Legible		North arrow [A1]
	Graphical scale bars [B1]		Channel alignment upstream and
	Title block for each page to include:		downstream 20 x channel bed width (CBW)
	Drawing title [B5]		(min. 150' up and down) [C5]
	Landowner name [B10]		Road and stream alignment, including:
	Drawing date and revision date [B20,B25]		[C10]
	Page number (X of total) [B35]		Planned changes with proposed road
	Title block for first page to include:		edges matched to existing edges [C20]
	Section, Township and Range [B15]		☐ Station labels at constant intervals (such
	Latitude and longitude [B30]		as 1+00) or at direction changes (such
			as 2+56) [C25]
П	Road Profile (Channel Cross Section):		CBW dimensions for bridges [C26]
_	For All Structures, include the following:		Stream flow direction symbol [C30]
	☐ Horizontal axis labeled with stations (1+00)		Proposed and existing structures with
	or consistent intervals (such as 100') [D1]	_	dimensions [C35]
	☐ Vertical axis labeled with elevations [D5]		Benchmarks and reference points with
	Road grades in percent slope [D10]		elevations [C40]
	Existing ground surface labeled [D20]		Road drainage plan (ditch relief culverts,
	Location of existing structures [E15]	_	ditch lining, etc.) [C45]
	For Pipes, include the following:		3, , , , ,
	☐ Pipe cross section with size labeled [E1]		
	☐ Dimension lines: Countersink, streambed	□ C	hannel Profile; including:
	shape including: pipe bed width, thalweg,		Horizontal axis labeled with stations (1+00)
	and banks [E5]		or consistent intervals (such as 100') [G1]
	Type, gradation, or material source used to		Vertical axis labeled with elevations [G5]
	restore streambed [E10]		For pipes: Cut slopes, fill slopes, and rock
	For Bridges, include the following:		armor angles labeled in
	☐ Superstructure (bridge) and substructure	_	X horizontal: 1 vertical [G10]
	(foundation) [F1,F5]		Proposed structure and existing structures
	CBW dimension line [F10]	_	[G25, G30]
	Clearance between 100-year flood level and		Channel profile upstream and downstream
	bottom of superstructure [F12]		20 x channel bed width (CBW) (min. 150' up
	Armor: Location, type, size, toe depth, and	_	and down) [G40]
	slope angles labeled in		Label all channel beds: existing, finished, and
	X horizontal: 1 vertical [F20, F25, F30, F35,	_	expected future regrade [G35,G36,G37]
	F40]		Finished and expected channel profiles
	☐ Bottom chord elevations [F60,F65]	_	labeled in percent slope [G45,G50]
			Station and elevation labels referenced to
			benchmarks for:
			Finished excavation limits and expected
			future regraded channel bed limits [G55]
			For Pipes:
			Upstream and downstream inverts
			[G60,G65]
			☐ Finished road surface [G80]