

## **PUBLIC IMPROVEMENT PLAN FIRST SUBMISSION CHECKLIST**



Engineers & Surveyors Institute 4795 Meadow Wood Lane, Suite 115 East, Chantilly, VA 20151 Phone: 703-263-2232

http://www.esinova.org

Plan Name:		Record Number:	
District:	Review Date:		
Submitting Firm:	Contact Name:	Phone Number:	
DPE Number:	DPE Name:		
ESI Peer Reviewer Name:	Paar Paviawar's Firm		

	Plan is non-acceptable if any * box is checked without explanation on plan or alternate solution noted.								
LINE	CODE SECTION	REQUIREMENT	SHEET	OK	NO	N/A	FFX		
		COVER SHEET							
1	LDS Policy	Aug 2024 edition of cover sheet used			*				
2	LDS Policy	Plan approval information completed (identification number,							
	LD3 Policy	approval dates, and sheet number)							
		All approved waivers/modifications and waiver/modification							
3	LDS Tech Bulletin 23-06	requests are listed, including the ones approved with the zoning							
		application. Include approval date and provide approval letter on							
		plan if applicable.							
4	PFM 9-0202.2C	Fire Marshal notes and data filled in							
5	PFM 10-104.1A	Sanitary sewer information filled in							
6	112.1-8101.4.B(4)	Vicinity map legible and to 1"=2,000' scale or greater							
7	112.1-8101.4.B(4)	Vicinity map shows street names and route numbers for adjoining							
	112.1-0101.4.0(4)	streets							
8	112.1-8101.4.B(4)	Vicinity map shows maintenance responsibilities for proposed							
0	PFM 8-0201.6	sidewalk/trail (VDOT, County, or privately maintained)							
9	LDS Policy	Stormwater Information filled in							
10	LDS Policy	Tax map reference number(s) filled in correctly			*				
11	112.1-8101.4.B(5)	Name, contact information and address of the owner and							
	112.1 0101.4.0(5)	developer filled in							
12	LDS Policy	Design engineer/surveyor's name, address, and phone number							
12	,	shown. Project manager name and email provided.							
13	LDS Policy	Magisterial district shown and is correct			*				
		Certificate signed by the surveyor or engineer setting forth the							
14	112.1-8101.4.B(7)	source of title of the owner of the site and the place of record of							
		the last instrument in the chain of title							
15	112.1-8101.4.B(8)	Soils map shown, with site identified. Soils map is based on current			*				
		County Soils Map.							
16	112.1-8101.4.B(8)	Soils data chart filled in per "Description & Interpretive Guide to							
	` '	Soils in Fairfax County"							
	112.1-8101.4.B(27)	Owner/developer wetlands permits certification signed			*				
18	LDS Policy	Sheet index and sheet titles match			*				
		PUBLIC STREETS	1	1					
19	112.1-8101.4.B(12)	Road name and route number shown for existing state-maintained							
	` '	streets shown.	ļ						
20	112.1-8101.4.B(12)	Street widths, pavement, curb type and right-of-way shown for			*				
	LDS Policy	existing and proposed streets	ļ						
	VDOT Road Design	Right of way, driveway entrances, intersections, medians, curb, or							
21	Manual	edge of pavement shown and labeled on both sides of existing							
		roadways. Limited access labeled, if applicable.							

LINE	CODE SECTION	REQUIREMENT	SHEET	OK	NO	N/A	FFX
22	112.1-8100.7.E(3)	Vehicular travel lanes, services drives, driveways, or other required access connections to adjoining properties are proposed or service drive/travel lane waiver is approved					
	PFM 7-0101.2 VDOT Road Design Manual Appendix A-1	Curve data shown for new streets and conform with shown street category					
24	PFM 7-0107.5A & 5B	Stop or yield signs shown at all intersections					
25	PFM 7-0201.1C PFM 7-0304.13	All proposed street construction is within existing or dedicated street right-of-way					
26	PFM 7-0301.1A & 1B PFM 8-0101.8	Curb-cut ramps provided where required (at site entrance curb returns, along accessible routes, at major crosswalks, HC accessible parking spaces, etc.). Curb cut ramps are entirely within right of way if VDOT maintained.					
27	PFM 7-0303 VDOT Road Design Manual App. F Section 4	Type, width, percent grade, and throat length of entrance(s) shown. Curb radii labeled. Review for possible design waivers/design exceptions.					
28	PFM 7-0304	Profile shown for all proposed streets including widening and turning lanes on existing streets. Elevations, percent grade, culverts, storm/sanitary sewer and utility crossings shown on street profile. Existing centerline profiles is shown for 200 feet minimum distance to ensure a proper grade tie when a proposed street is an extension of or connects with an existing street.			*		
29	PFM 7-0304	Centerline stationing shown in plan view for existing and proposed streets					
30	PFM 7-0305 112.1- 5100.2.D(4)(c) VDOT Road Design Manual Appendix A(1)/B(1)/B(2)/F 24VAC30-73-80.A 24VAC30-73-90.A	Sight distance plan and profile shown. For intersection sight distance, sight triangle is clear of obstructions, including landscaping and parked vehicles, among others. Sight distance easement exists or proposed where the sight line leaves the right of way. Sight distance easement is shown on layout, grading, tree preservation and landscape plans.			*		
31	PFM 7-0306.6B VDOT Road Design Manual Appendix A-1	For proposed streets, typical section with dimensions, street category, and design speed are provided			*		
32		For existing streets posted speed is provided					
33	VDOT Road Design Manual Appendix F Section 3	Turn lanes are proposed where required and conform to standard or a Design Waiver has been approved					
34	VDOT Road Design Manual Appendix A	Super-elevation provided where required by category					
35	VDOT IIM-LD-55 PFM 7-0301	At least one curb ramp provided across from new intersections on existing curb and gutter roadways. One curb ramp provided in each direction of intersection crossings.					
36	ADA VDOT IIM-LD-55	Curb ramp width matches connecting sidewalk/trail					
	VDOT IIM-LD-55	Curb ramp spot elevations provided to confirm ramp slopes, gutter pan transitions, etc.	_				
38	VDOT Policy	Latest version of VDOT general notes provided					
39	112.1-8101.4.B(4) 101-2-2(2) (Townhomes only) PFM 7-0107	Street names are shown for proposed streets					
40	PFM 7-0306.8 & 13D PFM 8-0100 101-2-2(10) VDOT SSAR	Sidewalks/shared use paths provided along the site's frontage as required unless a modification or waiver is approved. Sidewalks/shared use paths connect to adjacent sidewalks, shared use paths, and walkways.					

VDOT Road Design Manual, Appendix A(1) LDS Policy  VDOT Road Design Manual, Appendix A(1) LDS Policy  VDOT Road Design Manual, Appendix A(1)  VDOT Road Design Manual, Appendix A(1)  VDOT Road Design Manual, Appendix A(1)  Sidewalk width, width of buffer strip between road and sidewalk/trail, and width of maintenance strip between sidewalk and ROW are dimensioned  STREETLIGHTS & SITE LIGHTING  Existing and proposed utility poles and streetlights shown and labeled  Streetlights are proposed along all existing and/or proposed State roads providing frontage to the site  PFM 7-0804, Plate 28-7, 29-7, 30-7  PFM 7-0805.5B LDS Tech Bulletin 14-07  Lighting computations are provided and sealed by a lighting professional for proposed non-standard streetlights  EROSION AND SEDIMENT CONTROL  Limits of clearing and grading shown and includes all work to be	*	
LDS Policy  Sidewalk easement is proposed for sidewalks outside of ROW.  Sidewalk width, width of buffer strip between road and sidewalk/trail, and width of maintenance strip between sidewalk and ROW are dimensioned  STREETLIGHTS & SITE LIGHTING  Existing and proposed utility poles and streetlights shown and labeled  STREETLIGHTS & SITE LIGHTING  Existing and proposed utility poles and streetlights shown and labeled  Streetlights are proposed along all existing and/or proposed State roads providing frontage to the site  PFM 7-0802.3  PFM 7-0804, Plate 28-7, 29-7, 30-7  lengths and mounting heights are shown and labeled.  PFM 7-0805.5B  Lighting computations are provided and sealed by a lighting professional for proposed non-standard streetlights  EROSION AND SEDIMENT CONTROL	*	
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43   PFM 7-0802.3   labeled		
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LDS Tech Bulletin 14-07 professional for proposed non-standard streetlights  EROSION AND SEDIMENT CONTROL	*	
EROSION AND SEDIMENT CONTROL		
		i
PFM 2-0203.1C Limits of clearing and grading shown and includes all work to be		
47 PFM 2-0208.12 done (offsite, utility extensions, outfalls, etc.) and matches between	*	1
grading, erosion and sediment control, landscape plans		i
Priority Rating Form for E&S control is shown, and physiographic		
48 LDS Tech Bulletin 11-08 province is correctly identified		
49 LDS Policy Completed certified E&S Control Checklist provided		
PFM 12-0305.1 A Erosion & sedimentation controls and tree protection measures	*	
VSMH C-SSM-01 identified	r	
Two-phased E&S Plan provided for erosion and sedimentation		
51 PFM 11-0104.1 control. The F&S parrative includes site specific sequence of		
PFM 11-0303.4A construction in each phase.		
The Phase 1 E&S Plan proposes to install controls needed with		
DEM 11-010/11 minimal clearing Sediment hasins and trans perimeter dives		
52 9VAC25-875-560 (MS-4) sediment barriers and other perimeter control measures intended		
to trap sediment are proposed in Phase 1.		1
Sediment trap computations provided (Pipe outlet required if		
53 11-0106.2B   drainage is greater than 1 acre)		1
VSMH C-SCM-12 Sodian and hosin coloulations are unavided		
54 PFM 11-0106.2C Sediment basin calculations provided		1
FF PFM 11-0104.3		
Tech Bulletin 22-04 Region specific temporary and permanent seeding tables provided		1
Drainage divides are shown correctly, perpendicular to contours		
56 LDS Policy and enclosed. The outfall for each drainage area is labeled. Offsite	*	i
contours are shown to justify drainage divides.		
The minimum length for a temporary gravel construction entrance		
57 PFM 11-0106.2D is dimensioned 75 feet on the detail. If wash rack is proposed, the		
source of tire wash water is identified.		
Positive drainage provided into all E&S control measures, including	*	
58 VSMH BMP Construction diversion dikes.		
VSMH C-PCM-04 (SF, Drainage divides shown for ERS measures that have drainage area		
RSF, SSF)  Drainage divides shown for E&S measures that have drainage area limitations. Prainage areas do not exceed 1/2 at /100 ft for SE 1 acro		,
Imitations. Drainage areas do not exceed ¼ ac/100 ft for SF, 1 acre for IP, 5 acres for DD and 3 acres for ST. Drainage divides for SSF	*	
for IP, 5 acres for DD and 3 acres for ST. Drainage divides for SSF are only required when it needs to be demonstrated that		
VSMH C-SCM-II (SI) concentrated flow to SSE does not exceed 5 cfs		
PFM Table 11.1 concentrated now to 55F does not exceed 5 cis.		
60 LDS Policy Perimeter controls are shown outside of the graded area to	*	
accommodate grading operation.		
All erosion and sediment controls and tree protection devices are		
61 PFM 12-0305.1B All erosion and sediment controls and tree protection devices are placed within the area to be disturbed.		.
placed within the area to be disturbed.		

LINE	CODE SECTION	REQUIREMENT	SHEET	OK	NO	N/A	FFX		
		Storm drain inlet protection measures shown on -VSMH Plates C-							
62	VSMH 7.3.2	SCM-04-2, C-SCM-04-5, and C-SCM-04-6, which completely block							
		the drain throat or entrance are not proposed.							
63	LDS Policy	SSF ( <u>VSMH C-PCM-04-3</u> ) adjacent to Floodplains, RPA and steep							
	1255 T GITCY	slopes							
64	VSMH C-PCM-01	Provide safety fence where no other perimeter controls are proposed.							
	DRAINAGE								
		Drainage system honor natural divides for both concentrated and							
65	PFM 6-0202.2	non-concentrated stormwater runoff leaving the site unless a							
		written justification is provided and approved by the Director.							
		Concentrated runoff discharge leaving the site shall not aggravate							
66	DEM 6 0202 4	or create a condition where an existing structure under an			*				
66	PFM 6-0202.4	approved building permit floods. If such a structure exist,							
		detention for the 100-year storm event is provided.							
	PFM 6-0202.5	No concentrated surface water discharged offsite without							
67	PFM 6-0204.1.B.5	easements unless the discharge is into a natural watercourse, or							
	771110 020 1121313	other appropriate discharge point.							
		Sheet flow into lower lying properties: Pre- and post-development			*				
		runoff computations provided to demonstrate that increase in peak							
68	PFM 6-0202.6	flow runoff would not cause or aggravate drainage problem on the							
		downstream properties. Description is included in the outfall							
	DEN 4 C 000E 4	narrative.							
-	PFM 6-0905.4	Storm sewer profile is provided showing existing and proposed							
69	PFM 6-0902.2G	grade, depth of cover and HGL.							
	PFM Plate 62-6	If storm course is close to any building a loading plane diagram is							
70	PFM 6-0902.2P	If storm sewer is close to any building, a loading plane diagram is provided.							
	PFM 6-0905	provided.							
71	PFM 6-1008	Design computations provided for closed and open systems			*				
'-	PFM 6-1200	besign compatations provided for closed and open systems							
		Location and approximate extent of the overland relief paths are							
		shown. For the path, using overlaying arrows is suggested. Where							
	PFM 6-1501.2.E & F	the flow path is near buildings, shading or other suitable see-							
72	PFM 6-1502.2	through graphics are suggested to show the extent, and to			*				
	PFM 6-1502.3	demonstrate that no building is flooded by the 100-year flow.							
		Calculations are provided assuming complete failure of storm sewer							
		system occurs.							
		The extent of any dam break inundation zone of a state-regulated							
73	112.1-8101.4.B(40)	impounding structure is shown on the plan and labeled with the							
, ,	112.1 0101. 115(10)	name of the impoundment and the date of the study that							
		established the inundation zone.							
74	LDS Policy	Storm sewer or storm drainage easement is provided for all							
	·	residential developments							
75	VDOT Drainage Manual	Flow arrows provided for both existing and proposed storm pipe							
	Chapter 9 Section 4	STORMWATER MANAGEMENT							
	Stormwater Management Narrative (if plan is subject to 124.1-4)								
	124.1-3-2.C.4	A general description of the proposed stormwater management							
76	5 2.0.7	facilities (including both quality and quantity control).			*				
		Description of the mechanism through which the facilities will be							
77	124.1-3-2.C.4	operated and maintained after construction is complete.							
	404445	Description of how detention requirements for the 2 and 10-year			.t.				
78	124.1-4-4.D	storms are met.			*				
79	124.1-4-1	Description of how water quality control requirements are met.			*				
80	124.1-4-5	Reference to the letter of nutrient credit availability, if applicable.							

Description of downstream receiving system and extent of downstream receiving with the fine limits provision is provided or a SWOD letter is included  2 124.1.4.4.E Evaluation of sheet flow and its impact on adjacent properties.  Stormwater Management Narrative (if pain is subject to 124.1.5)  34 124.1.2.2 or 124.1.2.3 Demonstrating compliance with the time limits provision is provided or a SWOD letter is included  35 124.1.5.3 A general description of the proposed stormwater management facilities (including both quality and quantity control)  36 124.1.5.4.0 Description of the mechanism through which the facilities will be operated and maintained after construction is complete on the time limits provision is provided or a SWOD letter is included  37 PFM 6-1301.5 Description of the mechanism through which the facilities will be operated and maintained after construction is complete operated and maintained after construction is complete on the time limits provision are met.  88 124.1.5-4.A.8 B Description of how water quality control requirements based on the time limits provision are met.  99 PFM 6-0202.6 Evaluation of sheet flow and its impact on adjacent properties.  124.1.4-4.0.F, 8 G RB 124.1-3-1.2 C.6., 124.1.3-6. Hydrologic analysis pre and post development conditions, such as all runoff computations (e.g., T.C., N., C., etc.) using NOAA Atlas 14 Proper Goston and the first properties.  124.1.4-4.0.5 F, 184.1-3 C.8 Construction is computations. Storm water work of the properties of the properties of downstream review.  124.1.4-4.0.5 F, 184.1-3 Construction is computations. Storm system and extent of downstream review.  124.1.4-4.0.5 F, 184.1-3 Construction is computations. Storm system should be designed for the 10-year storm event.  124.1.4-4.0.5 F, 184.1-3 Construction is computations. Storm system should be designed for the 10-year storm event.  125 PFM 6-1300 Allowable release rate computations. Storm systems should be designed for the 10-year storm event.  126 PFM 6-1300 Colvert analysis computations.	LINE	CODE SECTION	REQUIREMENT	SHEET	OK	NO	N/A	FFX
Adequacy conclusion on channel and flood protection requirements for both natural and manimade conveyance systems.  * National State	81	PFM 6-0204				*		
for both natural and manmade conveyance systems.    124.1-4-4.E   Evaluation of sheet flow and its impact on adjacent properties.   *	02	4244 4 4 4 0 0				*		
Standard of Sheet in Ordinary Sheet in Standard of Sheet in Standard of Sheet in Standard of Sheet in Standard of Sheet in Standard Sheet	82	124.1-4-4.A & B				Τ.		
124.1-2-2 or 124.1-2-3   Demonstrating compliance with the time limits provision is provided or a SWD letter is included	83	124.1-4-4.E	Evaluation of sheet flow and its impact on adjacent properties.			*		
provided or a SWDD letter is included  A general description of the proposed stormwater management facilities (including both quality and quantity control)  \$ 124.1-5.6.4 Description of the mechanism through which the facilities will be operated and maintained after construction is complete  \$ 124.1-5.6.8 Description of how detention requirement for the 2 and 10-year storms are met.  \$ 124.1-5.4.A & B Description of how detention requirements based on the time limits provision are met.  \$ 124.1-5.4.A & B Description of how water quality control requirements based on the time limits provision are met.  \$ 124.1-5.4.A & B Description of downstream receiving system and extent of downstream review.  \$ 124.1-5.4.A & B Description of downstream receiving system and extent of downstream review.  \$ 124.1-4.4.D, F, & G OR 124.1-4.4.D. F, & G OR 124.1-5.3.F, 124.1-3.  \$ 124.1-4.4.D. F, & G OR 124.1-4.1.D. F, & G OR 1								
85 124.1-5-3 A general description of the proposed stormwater management facilities (including both quality and quantity control) 86 124.1-3-2.C.4 Description of the proposed stormwater management facilities (including both quality and quantity control) 87 124.1-5-6.B Description of the mechanism through which the facilities will be operated and maintained after construction is complete 88 124.1-5-6.B Description of how detention requirement for the 2 and 10-year storms are met 89 PFM 6-1301.5 Description of flow material to the time limits provision are met. 99 PFM 6-0204 Description of downstream receiving system and extent of downstream review. 90 PFM 6-0202.6 Evaluation of sheet flow and its impact on adjacent properties. 91 Stormwater Management Computations (For plans subject to Article 4 and Article 5)  92 PFM 6-0802.1 PFM 6-0803.2 PFM 6-0803.2 PFM 6-0803.2 PFM 6-0803.2 PFM 6-0803.2 PFM 6-1301.5 Inflow and routed hydrographs for design storms properties. 93 PFM 6-1301.5 Inflow and routed hydrographs for design storms Description of design computations including stage discharge curve and stage-storage curve 95 PFM 6-1301.7 Stormwater Management Computations. Storm systems should be designed for the 10-year storm event. 96 PFM 6-1200 Culvert analysis computations. Storm systems should be designed for the 10-year storm event. 97 PFM 6-0204.1.B.5 Sections to verify capacity and non-erosive velocity. Properties of the 10-year storm event. 98 PFM 6-0206.2 Hydraulic computations based on VRRM (Article 4) or Occoquan methods (Article 5) 98 PFM 6-0402.8	8/1	12/11-2-2 or 12/11-2-3						
facilities (including both quality and quantity control)  86 124.1-3-2.C.4 Description of the mechanism through which the facilities will be operated and maintained after construction is complete  87 124.1-5-6.B Description of how detention requirement for the 2 and 10-year storms are met.  88 124.1-5-4.A. & B Description of how detention requirement for the 2 and 10-year storms are met.  89 PFM 6-1301.5 Description of how water quality control requirements based on the time limits provision are met.  80 PFM 6-0204 Description of downstream receiving system and extent of downstream review.  81 124.1-3-4.A. & B Description of downstream receiving system and extent of downstream review.  82 PFM 6-0202.6 Evaluation of sheet flow and its impact on adjacent properties.  83 Stormwater Management Computations (For plans subject to Article 4 and Article 5)  84 214.1-3-4.D. F, & G OR 124.1-4-4.D. F, & G OR 124.1-3-5. F, 124.1-3-1  85 2.C.6, 124.1-4-6.A Hydrologic analysis pre and post development conditions, such as all runoff computations (e.g. Tc, CN, C, etc.) using NOAA Atlas 14 Type C Distribution  85 PFM 6-8003.1 PFM 6-1300 Allowable release rate computations  96 PFM 6-1301.7 Inflow and routed hydrographs for design storms  97 Outlet design computations, Including stage discharge curve and stage-storage curve  98 Storm sewer computations, hydraulic grade line computations, storm inlet design and for the 10-year storm event.  99 PFM 6-100 Culvert analysis computations to demonstrate capacity adequacy  90 PFM 6-1200 Culvert analysis computations based on VRRM (Article 4) or Occapian method (Article 5)  91 124.1-4-2.B Hydraulic computations based on VRRM (Article 4) or Occapian method (Article 5)  92 124.1-4-2.B Hydraulic computations based on VRRM (Article 4) or Occapian method (Article 5)  93 124.1-3-2.C.8 Are an analysis computations based on VRRM (Article 4) or Occapian method (Article 5)  94 124.1-3-2.C.8 Are an analysis computation of land use impervious, turf, and forested areas.  95 124.1-3-2.C.8 Area and fore	04	124.1-2-2 01 124.1-2-3						
124.1-3-2.C.4 pescription of the mechanism through which the facilities will be operated and maintained after construction is complete  124.1-5-6.B pescription of how detention requirement for the 2 and 10-year storms are met  124.1-5-6.B pescription of how water quality control requirements based on the time limits provision are met.  124.1-5-4.A & B bescription of downstream receiving system and extent of downstream review.  125. per	85	124.1-5-3	, , ,			*		
124.1-3-2.C.4   operated and maintained after construction is complete								
24.1-5-6.8   Description of how detention requirement for the 2 and 10-year storms are met	86	124.1-3-2.C.4	·					
PFM 6-1301.5   storms are met			·					
88 124.1-5-4.A & B	87					*		
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97 PFM 6-0204.1.B.5 sections to verify capacity and non-erosive velocity  98 124.1-4-2/124.1-5-4 Water quality computations based on VRRM (Article 4) or Occoquan methods (Article 5)  99 124.1-4-2.B 124.1-5-4.A.2 If subject plan is within Water Supply Overlay District (WSPOD) no offsite credit is allowed  100 124.1-3-2.C.8 Pre and post water quality control map showing areas served by each BMP facility and categorization of land use impervious, turf, and forested areas.  101 124.1-3-2.C.8 Pre and post water quantity control map showing offsite drainage areas supporting topographic, land use and soil information, and areas served by each stormwater detention facility.  102 PFM 4-0701.1 Depth between the bottom of the SWM/BMP facility and the seasonal high-water table (SHWT) or bedrock is shown. SHWT from June to October is determined by a certified professional using geomorphology.  103 PFM 6-1701.3 Site specific RPA boundary shown. Label references approved RPA delineation study number and approval date	96	PFM 6-1200						
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Occoquan methods (Article 5)  Other Stormwater Management Requirements  124.1-4-2.B 124.1-5-4.A.2 LDS Tech Bulletin 15-01  124.1-3-2.C.8 PFM 6-0402.8  Pre and post water quality control map showing areas served by each BMP facility and categorization of land use impervious, turf, and forested areas.  Pre and post water quantity control map showing offsite drainage areas supporting topographic, land use and soil information, and areas served by each stormwater detention facility.  PFM 4-0701.1  Depth between the bottom of the SWM/BMP facility and the seasonal high-water table (SHWT) or bedrock is shown. SHWT from June to October is determined by a certified professional using geomorphology.  **  RESOURCE PROTECTION AREA (RPA)  **  **  PFM 6-1701.3 112.1-8101.4.B(35)  Site specific RPA boundary shown. Label references approved RPA delineation study number and approval date	97							
Other Stormwater Management Requirements  124.1-4-2.B 124.1-5-4.A.2 LDS Tech Bulletin 15-01  Pre and post water quality control map showing areas served by each BMP facility and categorization of land use impervious, turf, and forested areas.  Pre and post water quantity control map showing offsite drainage areas supporting topographic, land use and soil information, and areas served by each stormwater detention facility.  PFM 4-0701.1 PFM 4-0702.3 PFM 4-0703 PFM 4-0703 PFM 6-1701.3 Site specific RPA boundary shown. Label references approved RPA delineation study number and approval date  Other Stormwater Management Requirements  If subject plan is within Water Supply Overlay District (WSPOD) no offsite drainage areas served by each BMP facility and use impervious, turf, and forested areas.  Pre and post water quantity control map showing offsite drainage areas supporting topographic, land use and soil information, and areas served by each stormwater detention facility.  PFM 4-0701.1 PFM 4-0701.1 PFM 6-1701.3 Site specific RPA boundary shown. Label references approved RPA delineation study number and approval date	00	1241 42/1241 5 4	Water quality computations based on VRRM (Article 4) or					
124.1-4-2.B 124.1-5-4.A.2 LDS Tech Bulletin 15-01  100 PFM 6-0402.8  Pre and post water quality control map showing areas served by each BMP facility and categorization of land use impervious, turf, and forested areas.  Pre and post water quantity control map showing offsite drainage areas supporting topographic, land use and soil information, and areas served by each stormwater detention facility.  PFM 4-0701.1 PFM 4-0702.3 PFM 4-0703 PFM 4-0703 PFM 6-1701.3 1123.1-8101.4.B(35)  Site specific RPA boundary shown. Label references approved RPA delineation study number and approval date    Subject plan is within Water Supply Overlay District (WSPOD) no offsite drainage areas served by each stormore and proving areas served by each stormore in proving and use impervious, turf, and forested areas.    Pre and post water quantity control map showing offsite drainage areas supporting topographic, land use and soil information, and areas served by each stormwater detention facility.    Depth between the bottom of the SWM/BMP facility and the seasonal high-water table (SHWT) or bedrock is shown. SHWT from June to October is determined by a certified professional using geomorphology.    PFM 6-1701.3   103	98	124.1-4-2/124.1-5-4	Occoquan methods (Article 5)					
99 124.1-5-4.A.2			Other Stormwater Management Requirements					
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101 124.1-3-2.C.8 areas supporting topographic, land use and soil information, and areas served by each stormwater detention facility.  PFM 4-0701.1 Depth between the bottom of the SWM/BMP facility and the seasonal high-water table (SHWT) or bedrock is shown. SHWT from June to October is determined by a certified professional using geomorphology.  **  **  **  **  **  **  **  **  **		111010-0402.0	and forested areas.					
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PFM 4-0702.3   Seasonal high-water table (SHWT) or bedrock is shown. SHWT from June to October is determined by a certified professional using geomorphology.    RESOURCE PROTECTION AREA (RPA)		PFM 4-0701 1	1 .					
PFM 4-0703  June to October is determined by a certified professional using geomorphology.  RESOURCE PROTECTION AREA (RPA)  103  PFM 6-1701.3  Site specific RPA boundary shown. Label references approved RPA delineation study number and approval date	102					*		
RESOURCE PROTECTION AREA (RPA)  103 PFM 6-1701.3 Site specific RPA boundary shown. Label references approved RPA delineation study number and approval date	102							
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103 112.1-8101.4.B(35) delineation study number and approval date								
112.1-8101.4.B(35)   delineation study number and approval date	102					*		
Page 5 of 0 Public Improvement Plan	103	112.1-8101.4.B(35)	delineation study number and approval date					

LINE	CODE SECTION	REQUIREMENT	SHEET	OK	NO	N/A	FFX
104	118-4-2	WQIA with proper mitigation submitted or approved for water-					
		dependent improvements (outfalls) or redevelopment within RPA					
105	118-5-3	An RPA Exemption request is submitted or approved and provided for trails, sidewalk, site amenities, public utilities within RPA					1
	118-6-9	An RPA Exception request is submitted or approved and provided					
106	PFM 6-0303.3	for SWM facilities or other uses within RPA					1
		FLOODPLAIN (FP)					
107	PFM 6-0704.1	Proposed structures do not adversely affect the existing 100-year					
107	PFIVI 0-0704.1	floodplain elevation.					
	PFM 6-1401.1	A floodplain study is submitted or approved. 100-year floodplain					1
108	PFM 6-1405	limits are shown. "Floodplain and drainage easement" exists or is					1
		proposed.					
100	112 1 5105 2 4	A Floodplain Use Determination (FPUD) request is submitted or					
109	112.1-5105.2.A	approved and provided for public utilities, roadway crossing or outfall within floodplain					1
		A Special Exception (SE) is submitted or approved for major fill or					
110	112.1-5105.4	use that are not permitted within the floodplain					1
		SANITARY SEWER					
111	DENA 40 0403 FA/4\ 0 /F\	Vertical and horizontal separation shown between sanitary sewer					
111	PFM 10-0102.5A(4) & (5)	main and waterlines and storm sewer lines					ı
	PFM 10-0102.5A(7)	Sanitary sewer pipe deeper than 18' is proposed to be DIP or PVC					
112	PFM 10-0102.5L.1	DR 14.					1
	PFM 10-0102.5M	Sanitary sewer lines crossing streams are proposed to be DIP.					i
		Sanitary sewer lines in fill areas are proposed to be DIP.					
112	PFM 10-0102.5B	Sanitary sewer main is extended to the nearest property line of the last lot to be served and easements extended to a property line			*		
113		where adjoining areas must be served.					i
		Sanitary sewers are minimum 15' from all buildings and 5' from the					
114	PFM 10-0102.5C	loading plane of building foundations. Sanitary sewers are not					i
		located under retaining walls.					i
115	PFM 10-0102.8D	Sanitary sewer grade not less than 1% to terminal manhole					
116	PFM 10-0104.2F	Sanitary sewer profiles are provided for all proposed sewers.			*		1
		Sanitary profiles are on same sheet as plan					
117	PFM 10-0104.2C	Bearings and distances on centerlines of sanitary sewers shown			*		
118	PFM 10-104.2G	Sewer sizes, manhole numbers and stationing shown on the plan			*		1
	11111 10 10 1120	and repeated on the profile.					
		Location of existing structures, houses, utility crossings, curbs,					1
119	PFM 10-0104.2D	property lines, railroad crossings, culverts and bridges shown on					1
120	MADAD Delieu	plan view					
120	WPMD Policy	Location of utility crossings shown on profile  FAIRFAX WATER (FW)					
	PFM 9-0102.2		l	l			
121	PFM 9-0202.2C.3, 4, 5	Location, size and type of proposed and existing water mains and			*		
	112.1-8101.4.B(31)	fire hydrants shown and labeled					
122	PFM 9-0102.3A	Proposed tie-ins to existing water system shown			*		
123	PFM 9-0102.3A	Water main stationing on the plan and profile			*		
123	FW Policy						
124	PFM 9-0102.3B	Water mains have 4' of cover unless otherwise noted. Proposed					
	FW Policy	cover is labeled.					
		Plan and profiles of all utility crossings of water mains within the					
125	PFM 9-0102.3D	easements are shown. Utility crossings labeled, including all sanitary laterals,					
123	FW Policy	Call outs for minimum clearances are shown.					
		Water main crossings are shown on the storm and sanitary profiles.					
436	DEM 0. 0402.25	No permanent structures are shown within the public water supply			*		
126	PFM 9-0102.3D	easement					

LINE	CODE SECTION	REQUIREMENT	SHEET	ОК	NO	N/A	FFX
127	PFM 9-0102.3S	Profile of all proposed public water mains included					
128	PFM 9-0102.3V	Test holes shown where required					
129	Fire Marshal Policy	Profile of all private fire lines are shown with min. 4' cover					
130	PFM 9-0102.3J	All hydrant, water service, fire line and stub-out valves must be restrained					
		FOREST CONSERVATION					
131	PFM 12-0204.3 PFM 12-0305.1A	Tree protection is shown on demolition plan					
132	PFM 12-0304.1A	Existing tree line for groups of trees are clearly shown with graphic key provided					
133	PFM 12-0309.2E	Tree protection devices and treatments are shown and identified					
134	PFM 12-504.1B	Proposed limits of clearing and grading is shown and labeled and					
151	PFM 2-0208.12	clearing limits match among all site plan sheets					
		MISCELLANEOUS	T				
135	112.1-8101.4.B(2)	All sheets have engineer's and/or surveyor's/landscape architect's seal and signature			*		
136	PFM 2-0101.1	All approved waivers are valid and shown on the plan, with waiver					
	County Policy	condition compliance narrative					
137	PFM 2-0106.1	Proposed grading shown by contours and spot elevations			*		
138	112.1-8101.4.B(3)	Plan is drawn to a scale of not less than $1'' = 50'$ . Match lines are shown where sheets join.			*		
139	LDS Policy	Plan is legible at the scale provided: Screening is not too light. Labels do not overlap Proposed improvements can be clearly differentiated from existing. (For more detailed directions see Note-2)			*		
140	LDS Policy	Adequate information is provided on each sheet: Storm sewer system, RPA, and FP limits, with labels are shown on all applicable sheets (Existing conditions, Site, Grading, E&S, and Landscape). Storm, sanitary sewer and water lines are shown on the same sheet with horizontal clearances clearly dimensioned.			*		
141	112.1-8101.4.B(6) 101-2-5(c)(6)	North arrow referenced to Virginia Coordinate System (VCS 83) and reference note is provided			*		
142	112.1-8101.4.B(6) 101-2-5(c)(6)	Two adjacent corners or two points with coordinate values are shown on existing conditions, layout, and grading plan sheets.  Metes and bounds are provided around the site boundary.					
143	112.1-8101.4.B(6) 101-2-5(c)(6)(b)	Vertical datum reference note is provided, and it refers to NGVD 1929					
144	112.1-8101.4.B(10) 112.1-8101.4.B(11) LDS Policy	Contours are shown at maximum 2' intervals. Where existing slope is less than 2%, additional spots or 1-foot contours are provided. Sufficient number of elevation labels are shown on existing and proposed contour lines.					
145	112.1-8101.4.B(12)LDS Policy	Proposed easements are shown and identified as "proposed". All existing easements are shown and labeled with deed book and page numbers. Easements are shown on all applicable sheets including E&S sheets.			*		
146	112.1-8101.4.B(12)	Owners, zoning, and present use of all adjoining properties are shown					
147	112.1-8101.4.B(19) 124.1.3-2.C.8(e)	Sufficient existing condition information (i.e. topography, structures, etc.) is shown beyond property boundaries, so impacts on adjacent properties can be evaluated					

CODE SECTION	REQUIREMENT	SHEET	OK	NO	N/A	FFX
	Trails or walkways are provided in accordance with the					
112.1-8100.7.E(2)	Comprehensive Plan unless waiver request submitted or approved.					
PFM 8-0202.1	Adequate right of way is provided for shared use paths within the					
PFM 8-0202.2D	right of way.					
PFM 8-0202.4	Public access easements are proposed for owner-maintained trails.					
PFM 7-0306	Trail easements are proposed for publicly maintained trails within					
PFM Plate 1-8 to 14-8	private property.					
VDOT RDM Appendix	1					
A(1) Section 1						
112.1-8101.4.B(15)	· · · · · · · · · · · · · · · · · · ·					
LDS Policy	ļ · · · · ·					
112 1-8101 4 B(17)						
112:1 0101: 115(17)	1 1					
	•					
PFM 2-0208.11						
	plan					
DEM 2-0304 2	Horizontal and vertical location of existing transmission lines and					
111012-0304.2	pipelines and associated easements shown					
	If pavement Marking and Signage Plans are required by VDOT, they					
VDOT Policy						
,	l ' '					
	, , , , ,					
VDOT Policy	· · ·					
	Explain if the answer is "No" or "N/A":					
	112.1-8100.7.E(2) PFM 8-0202.1 PFM 8-0202.2D PFM 8-0202.4 PFM 7-0306 PFM Plate 1-8 to 14-8 VDOT RDM Appendix A(1) Section 1	Trails or walkways are provided in accordance with the 112.1-8100.7.E(2)  PFM 8-0202.1  PFM 8-0202.2D  PFM 8-0202.4  PFM 7-0306  PFM Plate 1-8 to 14-8  VDOT RDM Appendix  A(1) Section 1  Location, type, size, and height of any fencing and retaining walls are shown. Footing of wall is within construction limits. Adequate space is provided between wall footing and limits of construction for installation of perimeter controls.  Horizontal location of all proposed trails and vertical location of any trail that is proposed to exceed an 8% grade are shown on the plan  Horizontal and vertical location of existing transmission lines and pipelines and associated easements show? If management of Traffic Plans are required by VDOT, they should be VDOT, they should be valued in accordance with the compensation within the eapproved. Adequate right of way is provided for shared use paths within the right of way.  Public access easements are proposed for owner-maintained trails. Trail easements are proposed for publicly maintained trails. Trail easements are proposed trail is included.  Trail easements are proposed for owner-maintained trails. Trail easements shown and are within the easement. shared use path type and typical section is provided.  Location, type, size, and height of any fencing and retaining walls are shown. Footing of wall is within construction limits. Adequate space is provided between wall footing and limits of construction for installation of perimeter controls.  Horizontal location of all proposed trails and vertical location of any trail that is proposed to exceed an 8% grade are shown  The location, type, size, and height of any fencing and retaining walls are shown. Footing of wall is within construction limits. Adequate space is provided.  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Horizontal location of all proposed trails and vertical location of any trail that is proposed to exceed an 8% grade are shown  The location, elevation, and description of two benchmarks which are properly correlated to the plan elevations are shown on the plan  PFM 2-0304.2 Horizontal and vertical location of existing transmission lines and pipelines and associated easements shown  If pavement Marking and Signage Plans are required by VDOT, they should be included with this submission for preliminary VDOT review. Explain if the answer is "No" or "N/A":  If management of Traffic Plans are required by VDOT, they should be included with this submission for preliminary VDOT review.	Trails or walkways are provided in accordance with the Comprehensive Plan unless waiver request submitted or approved. Adequate right of way is provided for shared use paths within the right of way. PFM 8-0202.4 Public access easements are proposed for owner-maintained trails. 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## **NOTES:**

## 1) Applicant's Response shown in "Compliance Method" Column in Proffer/Development Condition Compliance Matrix

- Describe how each proffer/development condition is addressed. All responses shall be specific to the project and demonstrate how each proffer/development condition is met (partially or completely).
- Do not fill in "Acknowledged". All acknowledgements happened at the time of proffer/development condition negotiations when the Applicant agreed with all proffers.
- Do not repeat the proffer in Compliance Method column. Instead, describe how the plan has addressed the requirements of the proffer/development condition partially or entirely. Please use specific plan references (i.e. MSP, SP, PI, etc.), as multiple plans may be used to achieve compliance.
- Provide separate compliance method for each subsection of each proffer/development condition.
- Do not use any "may" or "shall" in your compliance description. At this stage, all requirements should be either met, or non-applicable.
- Associated site plan # and sheet number should be listed in the correct column.

## 2) Readability

A readable plan is necessary for reviewers to conduct a thorough review and for site inspectors to enforce the approved plan during construction. Factors that diminish readability include, but are not limited to: overlapping lines, labels or information; insufficient distinction among line types or line weights; inaccurate or missing legend; heavy lines or shading that obscures underlying information; misplaced or missing leaders; lines or features without labels; scale too small to clearly depict all information; existing features indistinguishable from proposed work; and unreadable text (smaller than 0.1 inch, blurred, obscured by linework, overlapping text).

**ESI Peer Reviewer: COMPLETE NEXT PAGE for timely distribution** to agencies that are not involved in the normal review function.