ATTACHMENT 3

STORM/COMBINED DRAIN STRUCTURE INSPECTION SHEET

CULVERT INSPECTION FORM

OPEN CHANNEL INSPECTION FORM

DETENTION RETENTION BASIN INSPECTION FORM

Form DC-224 Storm/Combined Drain Structure Inspection Sheet (Bold fields are required)	
Surveyed By (1):	Certificate Number (2):
Work Order (8):	Survey Date (YYYYMMDD) (11):
Manhole Number (LegacyID) (22):	Page Number (if hand written) (13):
Drain Name:	
Street Number and Name (Address) (23):	
Purpose of Survey (17): F - Routine Assessment A - Maintenance Related B - Infiltration and Inflow Investigation C - Post-rehabilitation Survey D - Pre-rehabilitation Survey E - Pre-acceptance G - Capital Improvement Program Assessment H - Resurvey I - Sewer System Evaluation Survey R - Pre-existing Video or Photographs S - SAW Grant Conditional Assessment X - Not Known	Inspection Level (18): 3 - Level 1 + (Hybrid) 1 - Level 1 2 - Level 2 Inspection Status (19): SI - Surface Inspection DI - Descent Inspection RI - Remote Inspection BM - Buried and Marked NA - No Access NF - Not Found NI - Traffic NO - Not Opened SD - Surcharged/Debris
Location Code (25): A - Primary Major Arterial Roads B - Secondary Roads C - Local Rural Roads D - Easement/Right of Way E - Woods F - Sidewalk F1 - Driveway (Sidewalk) G - Parking Lot H - Alley I - Ditch J - Building K - Creek (includes any waterway) L - Railway M - Airport N - Levee/Floodwall O - Dam P - Levee Pump Statin Y - Yard Z - Other (Enter in Field 28)	Surface Type (26): A – Asphalt B – Concrete/Pavement C – Concrete Collar D – Grass/Dirt D1 – Landscaping (Grass/Dirt) E – Gravel Z – Other (Enter in Field 28) Manhole Use (29): SW – Stormwater CB – Combined DP – Dam FM – Force Main PR – Processes XX – Not Known ZZ – Other (Enter in Field 44) Traffic Control: N – No
Location Details (28):	Y - Yes

(Bold fields are required)		
Access Type (30): AMH – Manhole ACB – Catch Basin ACOH – Cleanout House ACOM – Cleanout Property AJB – Junction Box AM – Meter AOC – Other Special Structure AWA – Wastewater Access AWW – Wet Well List Type if not above: For Repairs, is any Restoration Work Neede N – No Y – Yes Additional Information (44):	Evidence of Surcharge (33): N – No Y – Yes Evidence of I/I: N – No Y – Yes Evidence of Illicit Discharge/Connection: S – Sanitary Connection /Debris/Floatables B – Bacterial Sheen/Algae/Slime D – Soap/Detergents G – Gas/Diesel/Oil C – Unusual Color /Turbidity/Deposits/Stains O – Unusual Odor X – Sediment/Soil Erosion Z – Other (Enter in Field 44) Sump Present: N – No	
Cover Condition (56): Sound Bolts Missing Broken Corroded (Pitted) Cracked Missing Restraint Missing Restraint Defective N/A XXX - Not Known ZZZ - Other (Enter in Field 106) Chimney Condition (81): S - Sound D - Defective (Enter notes in Field 106) X - Not Known N/A	JIM NASH	
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Storm/Combined Drain Structure Inspection Sheet

Form DC-224

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Storm/Combined Drain Structure Inspection Sheet (Bold fields are required)

Cone Condition (87):	Wall Diameter-Length (INCHES) (88):
 S − Sound D − Defective (Enter notes in Field 106) X − Not Known N/A 	Wall by Size-Width (INCHES) (89):
Step Condition:	Bench Condition (98):
 S − Sound D − Defective (Enter notes in Field 106) X − Not Known N/A 	 S − Sound D − Defective (Enter notes in Field 106) X − Not Known N/A
Wall Condition (94):	Channel Condition (103):
S – Sound	S – Sound
□ D − Defective (Enter notes in Field 106)□ X − Not Known□ N/A	□ D − Defective (Enter notes in Field 106)□ X − Not Known□ N/A
Verify Map: Are there any unmapped connections of property in the second property in the se	
Additional Component Information (106):	

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Storm/Combined Drain Structure Inspection Sheet (Bold fields are required)

Pipe Number (107): NEW PIPE	Direction of Flow (110):
Rim to Invert (FEET) (109):	
Material (111): ABS – Acrylonitrile Butadiene Styrene AC – Asbestos Cement BR – Brick CAS – Cast Iron CMP – Corrugated Metal Pipe CP – Concrete (Non-Reinforced) CT – Clay Tile (Not Vitrified Clay) DIP – Ductile Iron Pipe FRP – Fiberglass Reinforced Pipe PCCP – Pre-Stressed Concrete Cylinder Pipe PCP – Polymer Concrete Pipe PE – Polyethylene PP – Polypropylene PSC – Plastic/Steel Composite PVC – Polyvinyl Chloride RCP – Reinforced Concrete Pipe RPM – Reinforced Plastic Pipe (Truss Pipe) SP – Steel Pipe VCP – Vitrified Clay Pipe XXX – Not Known ZZZ – Other (Enter in Comments)	Shape (112): C - Circular A - Arched (With Flat Bottom) O - Oval (Elliptical) H - Horseshoe (i.e. Inverted U with Curved Sidewalls) E - Egg Shaped B - Barrel (e.g. Beer Barrel Shape) R - Rectangle S - Square T - Trapezoidal U - U-Shaped with Flat Top (Straight Walls) Z - Other (Enter in Comments) XXX - Not Known Height Or Diameter (INCHES) (113): Width (INCHES) (114): S - Sound D - Defective (Enter in Comments) N/A
Pipe Type (117): FM – Force Main GR – Gravity Connection IL – Inside Drop Lower IU – Inside Drop Upper LB – Lateral to Building (Service Line) OL – Outside Drop Lower OU – Outside Drop Upper XX – Not Known ZZ – Other (Enter in Comments Field) Pipe Seal Condition (116):	Sketch proper layout:
S − SoundD - Defective (Enter in Comments)N/A	Comments:

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Storm Drain Culvert Inspection Sheet (Bold fields are required)

Surveyed By (1):	Certificate Number (2):
Work Order (8):	Survey Date (YYYYMMDD) (11):
Project (10):	Page Number (if hand written) (13):
Drain Name:	
Street Number and Name (Address) (23):	
Purpose of Survey (17): F - Routine Assessment	Surface Type Comments: Culvert Deformation: None 1% - 10%
Accessibility: Shined Walked Giant Hogweed Accessibility Comments: Found Not Found Submerged Buried/Detected	> 10% Culvert Material: Concrete

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Storm Drain Culvert Inspection Sheet (Bold fields are required)

Sediment Observed:	Culvert Defects (3):
□ No	None
Yes	Excessive Corrosion
_	☐ Hole
Sediment Percent of Clear Opening:	Fractured
□ 0% - 10%	Joint/Seam Separation
☐ 11% – 25%	Scoured
26% – 50%	Other (Enter in Comments)
☐ > 50%	
	Culvert Defect
Blockage Observed:	Comments:
□ No	
Yes	
Blockage Type:	
None	
Excessive Vegetation	Culvert Condition:
Woods/Logs	Good
Other (Enter in Comments)	Fair
U Other (Litter in Comments)	Poor
Blockage Type	
•	Immediate Maintanance Possuired
Comments:	Immediate Maintenance Required:
	☐ None
	Culvert Deformation
Division Device to Colonia Constituti	Sediment Removal
Blockage Percent of Clear Opening:	Blockage Removal
0% - 10%	Culvert Defect (See Defect Fields Above)
11% – 25%	Engineer's Evaluation Needed
<u>26% – 50%</u>	Other Repair (Enter in Comments)
	Immediate Maintenance
Culvert Defects (1):	Comments:
None	
Excessive Corrosion	
Hole	
Fractured	
Joint/Seam Separation	
Scoured	General Notes/Access
Other (Enter in Comments)	Notes:
Culvert Defects (2):	
None	
Excessive Corrosion	
☐ Hole	
☐ Fractured	
☐ Joint/Seam Separation	
☐ Scoured	
Other (Enter in Comments)	

Channel Inspection Sheet s are required)
Certificate Number (2):
Survey Date (YYYYMMDD) (11):
Page Number (if hand written) (13):
-
Invasive Species Present (Coverage from Top of Bank to Top of Bank): N/A or None Common Buckthorn Giant Hogweed Phragmites Purple Loosestrife Other (Enter in Comments)
Invasive Species Comments:
Percent Invasive (Coverage Area): None 1% - 10% 11% - 25% >= 26%
Channel Stability: Flow centralized in channel Minimal diversion of flow to banks Excessive diversion of flow to banks

	en Channel Inspection Sheet ds are required)
Erosion: N/A or None Minor Bank Erosion Major Bank Erosion Erosion Comments:	Evidence of Illicit Discharge/Connection: N/A or None Sanitary Connection/Debris/Floatables Soap/Detergents Gas/Diesel/Oil Unusual Color/Turbidity/Deposits/Stains
Blockages/Obstructions Present: No Yes	Comments:
Blockages/Obstructions Type: N/A or None Sediment Fallen Tree(s) Woody Debris Log Jam/Beaver Dam Non-Vegetative Debris Bridge Crossing Dock Damn Weir Other (Enter in Comments)	Immediate Maintenance Required: No Obstruction Removal Erosion Repair/Prevention Sediment Removal Debris Removal Blockage Removal Vegetation and/or Tree Maintenance Access Route Maintenance Engineer's Evaluation Needed Other Repair (Enter in Comments)
Blockages/Obstructions Comments:	Immediate Maintenance Comments:
Exposed Utility: No Yes	General Notes/Access Notes:
Exposed Utility Comments:	

orm DC-XXX Storm Drain Retention/Detentio (Bold fields are	n Pond Channel Inspection Sheet e required)
Surveyed By (1):	Certificate Number (2):
Work Order (8):	Survey Date (YYYYMMDD) (11):
Project (10):	Page Number (if hand written) (13):
Drain Name:	
Street Number and Name (Address) (23):	
Purpose of Survey (17): F - Routine Assessment	Percent Invasive (Coverage Area): ☐ None ☐ 1% - 10% ☐ 11% - 25% ☐ >= 26%
Vegetation Coverage (For Stabilization of Upland and Bank): Good – Full Vegetation Fair – Some Bare Spots Poor – Significant Bare Spots/Vegetation Spare Vegetation Coverage (For Stabilization of Dry Basin Bottom): Good – Full Vegetation Fair – Some Bare Spots Poor – Significant Bare Spots/Vegetation Spare	 N/A or None − No Fallen or Overgrown Trees Minimal − Few Fallen or Overgrown Trees Excessive − Significant Fallen or Overgrown Trees Se Bank/Side Slope Condition: N/A or No Failure of Bank/Side Slope Minor Failure of Bank/Side Slope Significant Failure of Bank/Side Slope
Animal Burrows Present: No Yes	Basin Bottom Condition: N/A or No Sedimentation/Erosion; Proper Drainage Minor Sedimentation/Erosion; Minor Drainage Issues Significant Sedimentation/Erosion; Major Drainage Issues

Form DC-XXX	Storm Drain Retention/Detention Pond Channel Inspection Sheet	
	(Bold fields are required)	
	licit Discharge/Connection: r None	
Sanita	ry Connection/Debris/Floatables	

	N/A or None
	N/A or None
	Sanitary Connection/Debris/Floatables
	Soap/Detergents
	Gas/Diesel/Oil
	Unusual Color/Turbidity/Deposits/Stains
_	Unusual Odor
	Sediments/Soil Erosion
	Other (Enter in Comments)
l	ata Maintananaa Bassinad
	ate Maintenance Required:
	No
	Obstruction Removal
	Erosion Repair/Prevention
	Sediment Removal
	Debris Removal
	Blockage Removal
	Vegetation and/or Tree Maintenance
	Access Route Maintenance
	Engineer's Evaluation Needed
	Other Repair (Enter in Comments)
Immedia	ate Maintenance
Comme	1[\$:
Comme	nts:
Comme	
Comme 	
	Notes/Access
General	Notes/Access
General	
General	Notes/Access

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