



Road and Storm Drain Plans Review Checklist

Project Name: _____

Tax Map _____ Parcel _____ Acreage _____ Plat _____ ADC Map & Grid _____

Owner's Name: _____

Contract Purchaser's Name: _____

_____	_____	_____	_____
Address	City/Town	State	Zip Code

Engineer/Surveyor: _____

For additional contact: _____

Name: _____

The following listed items are the minimum requirements for review and approval of Road and Storm Drain Plans by City of Aberdeen Department of Public Works. Plans not meeting these requirements will be deemed incomplete and returned to the engineer. Please complete and submit the checklist with the plan submittal.

CO/NA

- 1. Road and Storm Drain Checklist
- 2. Road and Storm Drain Engineering Plans (36"x24")

3. Title Sheet

- a. Location Map drawn to scale (1' = 600 feet) Map to indicate Tax Map and Parcel Number, bench marks, existing and proposed roads
- b. City General Notes
- c. Owner/Developer and Engineer Certifications
- d. Geotechnical Certification and As-built Certification Blocks
- e. Owner and Engineer's address

4. Road Plan View

- a. Plan to scale of 1"=50', 1"=40', 1"=30', or 1"=20' with North arrow oriented to top of page.
- b. Street names
- c. Right-of-way, Pavement and Easement widths, both existing and proposed clearly defined.
- d. Bearing, distance, stationing of roadway centerlines, P.C.'s and P.T.'s and Roadway Centerline P.I.'s
- e. Horizontal curve Information: Angle of Intersection, Center Line Radius, Tangent Length, Length of Curve, Chord Bearing, and Chord Length.
- f. Stationing along centerline in even fifty foot sections

- g. Existing and proposed Storm Drain clearly shown and labeled.
- h. Stations of P.C.'s and P.T.'s of curbs as well 25 foot stationing of curbs on circular portions of cul-de-sacs and/or residential Intermediate turnarounds
- i. A minimum of three (3) NAD83m x,y coordinates at 250 feet intervals or (3) NAD 83 m x,y coordinates ± 9 meters
- j. Bench Mark reference, Description and Elevation
- k. Show future roadway 200' beyond Limit of Work

5. Profiles

- a. Profiles drawn horizontal scale 1" = 50' and vertical scale 1" = 5'
- b. Existing grades at centerline of road and right and left of right of way limits
- c. Profile Grade Line: centerline of road or top of curb
- d. Existing and proposed elevations at 50' intervals, 25' intervals for vertical curves
- e. Label Elevations and stations for P.V.'s, P.V.R.C.'s, P.V.T.'s and P.V.I.'s
- f. Stopping Sight Distance
- g. Label, elevations and stations of sumps and crests along vertical curves
- h. Extended profile 200 feet beyond limits of work
- i. Horizontal Intersection Stations Identified
- j. Linear Profile of cul-de-sac and/or intermediate turnaround with existing and proposed elevations at 25' intervals.

*THE FOLLOWING NOTE SHALL BE ON THE PROFILE SHEET IN AREAS OF FILL.

Fill Material is to be controlled and compacted as certified by an approved Soils Engineer. Fill Material is to be placed in no less than 4" and no greater than 8" lifts and rolled to 95 percent compaction within the top one (1) foot and 92 percent compaction elsewhere within Road right-of-way.

- 6. **Storm Drains** – Attached Hydraulic gradient & Head loss spread computations signed and Sealed.
 - a. Scale
 - b. Crossing with existing and proposed utilities
 - c. Pipe size (minimum 15") Type (ACCMMP, HDPE, CAP or class IV RCCP within the Road right of way), Slope, Q_{25} (cfs), Velocity (FPS), HGL-25 year storm plotted, Proposed and existing grades, inverts, structures clearly labeled to match plan view
 - d. Cross culverts designed on 25 year storm, show 2, 10 and 100 year Flood Elevation, Class 1 Rip Rap upstream, Class I & II Rip Rap with toe wall downstream per design calculations
 - e. Outfall protection at all end walls/headwalls into existing systems
 - f. Structure Schedule: Providing structure standards, top of grate/cover, invert elevations, Comments
 - g. Drainage area map (North arrow, scale, existing and future system)
 - h. If open section roads are proposed, provide driveway, culvert computations and ditch computations (Flow Tabulation Form). Refer to SHA 61.1-405.0 for maximum ditch velocities permitted.)

7. Construction Details

- a. Curb details
- b. Pavement sections
- c. Inlet details