

CITY OF GROSSE POINTE WOODS ENGINEERING PLAN REVIEW CHECKLIST

PROJECT:	AEW #:
SITE PLAN #:	
NO. OF ACRES:	

REGARDLESS OF ENGINEERING PLAN REVIEW STATUS, THE OWNER IS RESPONSIBLE FOR THE FOLLOWING GENERAL REQUIREMENTS:

REVIEW FEE:

- 1. All construction must conform with current City specifications and any other agency having jurisdiction, unless written approval is granted to the contrary.
- 2. Review fees must be paid with initial submission of plans.
- 3. All City, County and State inspection and permit fees must be paid prior to construction.
- 4. Pre-construction meeting must be held prior to construction unless written permission from the City is granted to the contrary.
- 5. Easements must be prepared prior to engineering approval and as-builts completed prior to acceptance of any utility by the City.

NOTE:

NO. OF LOTS:

This Engineering Plan Review Checklist is not intended to be a complete or comprehensive list of review items. Additional requirements or exceptions will be evaluated on a case by case basis.

SANITARY SEWER REQUIREMENTS

 In conformance with Master Plan.
 Service area map and volume computations provided permit application.
 Quantity and Location list provided on cover sheet for Permit.
 Proper Spacing/Location of Manholes. (400' MH to MH) Size: 4 Ft. Min. 5 Ft. Min. /Drop Connections
 Size, Slope, Type and Class of pipe in conformance with City requirements. (8/10's, 0.1 Ft., drops).
 All conflicts shown in plan and profile with elevations.
 City Detail sheet included with plan.
 Outlet is available and has sufficient capacity?
 Sufficient depth for future extension within service area? Sufficient depth within site?
 Sanitary sewer easements (on-site, off-site).
 Profile.
 Interior drop connection only (over 1.5' drop).
 6" leads, location, materials, slope, clear storm sewer?
 Compacted sand backfill under paved areas.
 Inspection manholes for industrial.
 Dimensions.
 Sump for testing infiltration (1' deep) at first MH upstream of existing sanitary.

STORM SEWER REQUIREMENTS

 Service area map and hydraulic computations provided.
 Retention area provided with proper volume calculations. (2" over site).
 Proper Spacing/Location of Manholes with dimensions (350' max.).
 Stubs or Catch Basins provided for maintenance of upstream drainage.
 Size , slope, type and Class of pipe in conformance with City requirements.
 All conflicts shown in plan and profile with elevations.
 Current City Detail sheet included in plan.
 Outlet is available and has sufficient capacity.
 Sufficient depth for extension within service area.
 Storm sewer easements. (On-site, Off-site). Only need to maintain off-site drainage outlets.
 Bedding, compaction and backfill notes.
 All catch basins require 2' sumps.
 Minimum catch basin size is 2' minimum (yard basins only) 4' minimum all others.
 Premium joint pipe to be used on side lot lines from drainage structure to drainage structure.
 Minimum storm sewer size is 8".
 Sump pump leads and roof drains to drainage structures.
 At least 1 rear yard drainage structure must be adjacent to each lot.
 Depth: 4 Ft. (min.) from proposed ground to invert.
 Provide profiles.
 Show hydraulic gradient.
 Drain Commission requirements.
 Edge drain at catch basins. Edge drain around entire perimeter of New Roads.

WATER MAIN REQUIREMENTS

 In conformance with Master Plan.		
 Quantity and Location list provided on Cover Sheet for Permit.		
 Proper Spacir valves and blo	ng/Location of gate valves (800') and hydrants (500') air release ow-offs.	
 Size and class	s of pipe in conformance with City requirements.	
 Current City D	Detail sheet included in plan.	
 System loope	d properly internally or with existing water main.	
 Provide for fu	ture loops or extensions.	
 Water main e	asements. (On-site, Off-site).	
 Hydrant location approved by Fire Chief.		
 Finish grades for gatewells and fire hydrants.		
 Profile for 16"	and larger.	
 Sizes:	6" for hydrant leads less than 60' 8" for hydrant leads greater than 60' 8" in residential (min.) 12" in industrial (min.)	
 _ Trust blocks, bends.		
 Depth = 5.5' of cover.		
 Show all utility crossings with elevations and clearances.		
 Compacted sand backfill under paved areas.		
 Connection to existing mains with tapping sleeve valve in well.		
Check locatio	n within existing and proposed R.O.W.	

PAVING AND GRADING

 Is off-site drainage picked up. (Piped and Surface).
 Building drainage provided for.
 Proper grading slopes (asphalt – 1%, concrete5% swales – 1% minimum. Rear yard surface drainage 300 ft. maximum). (5% - max. for paved areas).
 Typical Section shown. (Grading and Pavement).
 Fence, wall or screening required. Weep holes for drainage.
 Accelerate-Decelerate or by-pass lanes required.
 Sidewalks required, with elevations.
 Easement required.
 Easement required for grading. (On-site, Off-site).
 Easement required for access. (On-site, Off-site).
 Large differences in proposed grades and off-site grades may require a retaining wall design.
 Mass grading must be completed prior to construction of onsite utilities (if large cuts and fills are expected).
 Earth removal permit for lake construction.
 Cross sections around perimeter of site.
 Check trash dumpster details 8" wall, poured deco. concrete
 Man-door protection posts.
 Building grade comparison to adjacent buildings or property.
 7' wide sidewalks in front of handicap spaces to allow for 2' vehicle overhang.
 Means of Restoration provided on plans.