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Town of Cheshire  
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Planning Dept.

November 9, 2020

Mr. Don Nolte, Engineering Operations Manager  
Town of Cheshire  
84 South Main Street  
Cheshire, CT 06410

Re: Ball & Socket Arts, Inc.  
IWWC Application for expired CIWWC Permit #2014-020  
493 West Main Street, Cheshire, CT

Dear Mr. Nolte:

Anchor Engineering Services, Inc. reviewed the following information prepared by Milone & MacBroom:

- Ball & Socket Arts – Phase I Plan sheets 1-6 of 11 dated May 19, 2014 and revised July 14, 2014.
- Stormwater Management Report dated May 19, 2014

It is my understanding that this project was previously approved by the Town of Cheshire IWWC and the PZC in 2014 but these permits have expired. The application submittal in 2014 was reviewed by the town engineer, Walter Gancarz, P.E., and revisions were submitted. In his memo dated July 22, 2014 he stated that he had no further comments on the revised plans. Based on our review of the submitted information, we offer the following comments:

1. The plans and report submitted should be signed and sealed by a CT licensed professional engineer/land surveyor as appropriate.
2. It does not appear that the NOAA rates were used for the intensities in the stormwater calculations. The calculations could be updated to include these higher rainfall rates. Having said that, it appears that most of the pipes have excess capacity so it may not matter for the pipes but it may have an impact to the proposed detention.
3. Type B soils were included in the analyses but no soil data for the site was included. Test pit data should be included for the detention/infiltration area, establishing the existing groundwater elevation. The system is proposed with a cut of 6.5 feet +/-.
4. The detention basin water elevation for the 10 year storm should be included as the tailwater elevation in the analysis for the inlet pipe to the detention system.
5. The three proposed storm discharges outlet to the adjacent property to the west. Rights to drain and drainage easements where improvements cross into the adjacent lot, should be secured.
6. Appropriately sized outlet protection should be included at the proposed pipe outlets.
7. The northernmost proposed drainage outlet crosses an existing gas easement. The existing gas line in this area should be shown and adequate separation for the new drainage pipe ensured. A flared end or headwall should be included at the end of the pipe. This pipe also outlets adjacent to CT DOT storm drainage/wingwalls within a CT DOT drainage easement. The applicant should contact CT DOT for their review of this and for the necessary Encroachment Permit.

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8. The WQF and the total bypass flow for the proposed CDS structures should be included on the plans so that the structures can be appropriately designed at the time of construction.
9. An existing drive connection from the adjacent western abutter is proposed to remain – cross access easements should be acquired.
10. Some of the pipes appear oversized and with shallow cover in some areas, applicant may want to consider smaller pipes with more cover if possible or consider using PVC pipe which has thinner walls in lieu of the RCP Class V.

If you have any questions regarding the above comments, please don't hesitate to contact me at (860) 633-8770.

Sincerely,

A handwritten signature in blue ink that reads "Denise Pford".

Denise P. Lord, P.E.  
Senior Civil Engineer