



WORK SESSION

AGENDA

City Commission of the City of Warrenton

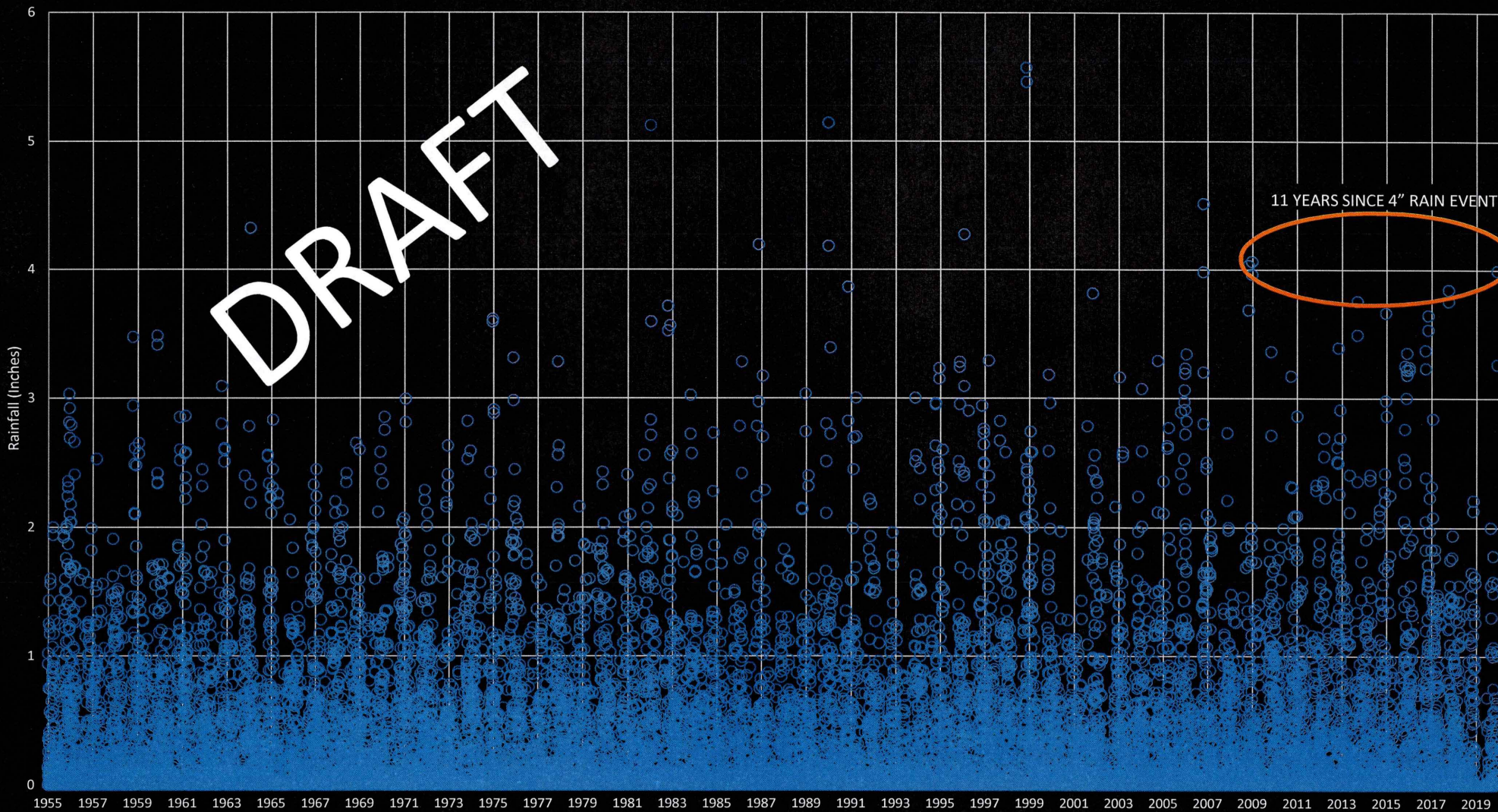
Tuesday, January 28, 2020 – 5:15 P.M.

**Warrenton City Commission Chambers
225 South Main Avenue
Warrenton, OR 97146**

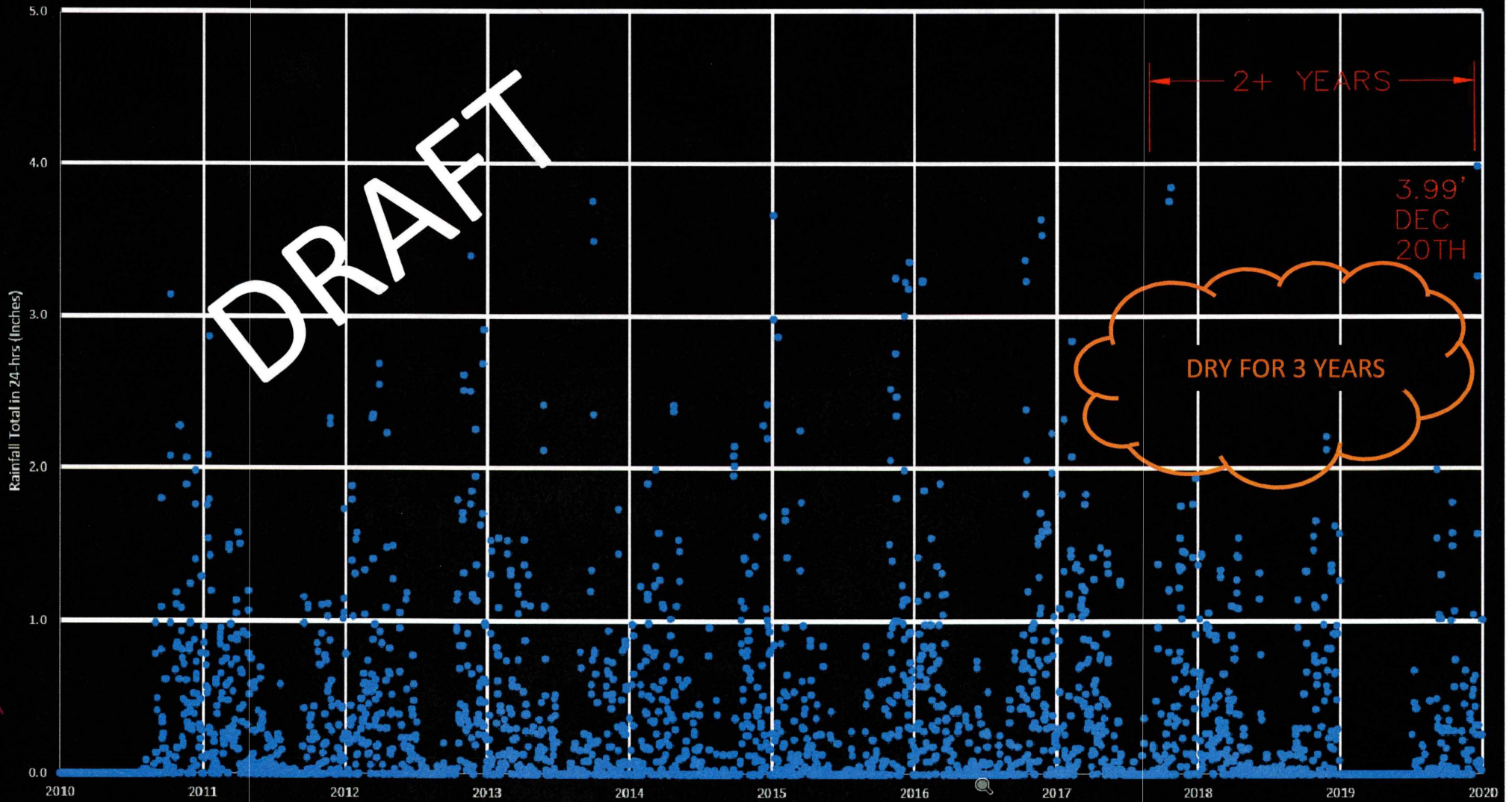
- 1. Call to Order**
- 2. Roll Call**
- 3. Discussion on Stormwater Drainage**
- 4. Adjourn**

Warrenton City Hall is accessible to the disabled. An interpreter for the hearing impaired may be requested under the terms of ORS 192.630 by contacting Dawne Shaw, City Recorder, at 503-861-0823 at least 48 hours in advance of the meeting so appropriate assistance can be provided.

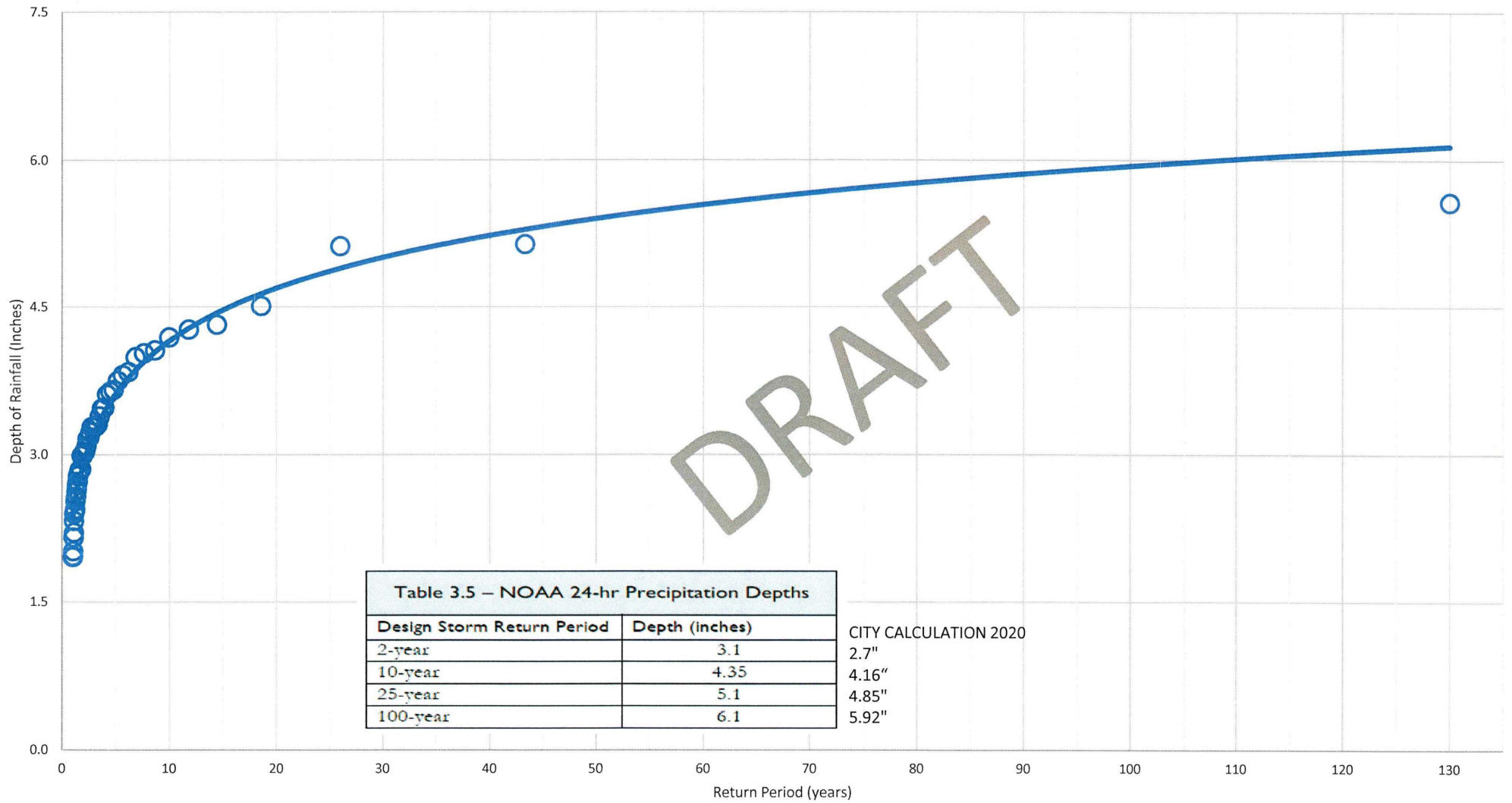
24-hr Rainfall Totals



24-hr Rainfall Totals

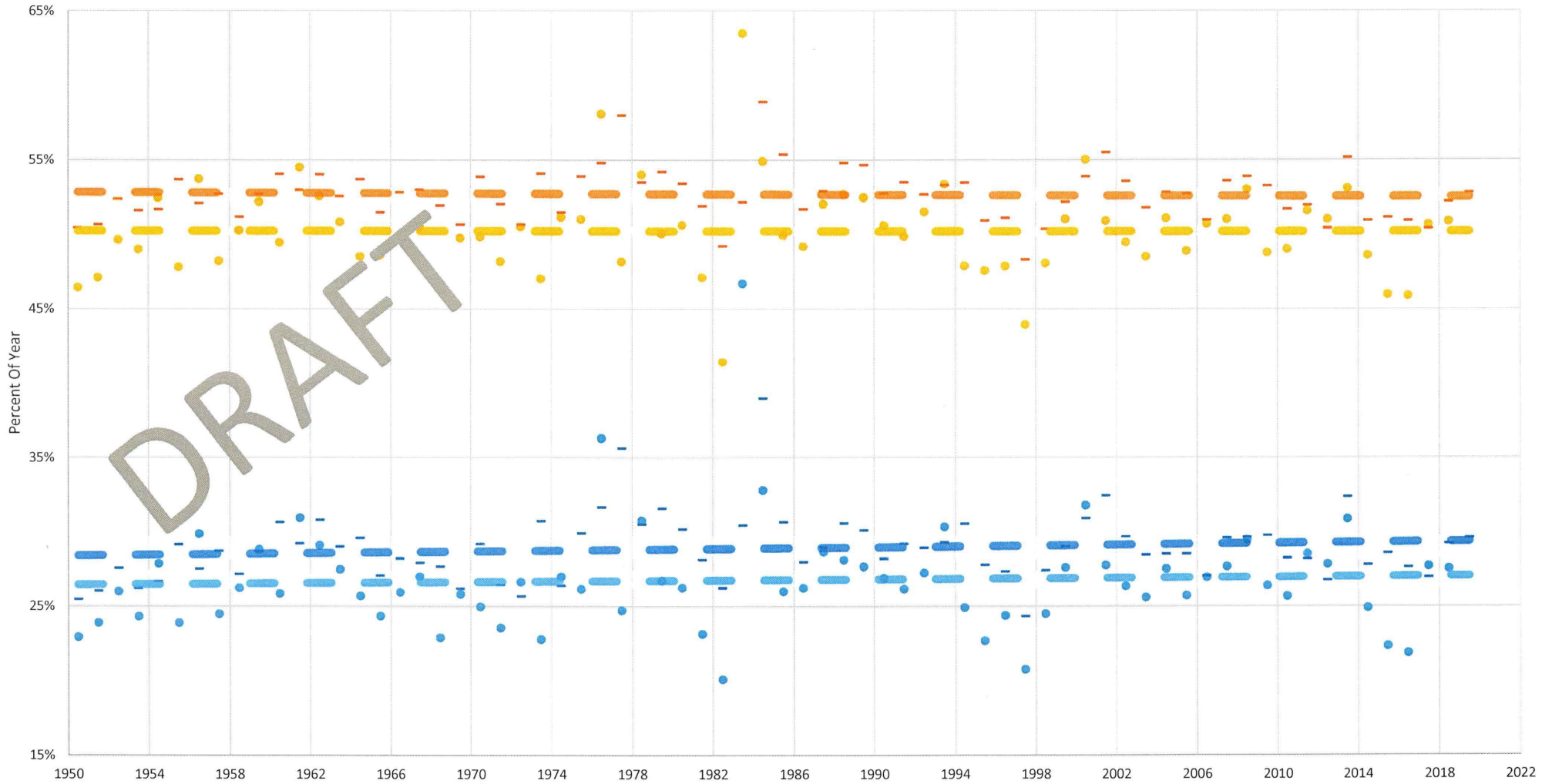


Draft 24-hr Rainfall Events



Percent of Time our Tide is Below an Elevation

● 3' Oct-Mar - 3' All Year ● 5' Oct-Mar - 5' All Year ● Linear (3' Oct-Mar) ● Linear (3' All Year) ● Linear (5' Oct-Mar) ● Linear (5' All Year)



ISSUES SPECIFIC TO WARRENTON?

1. TIDAL CYCLE

- a) NEED TO DRAIN RUNOFF QUICKLY WHEN TIDE IS LOW
- b) DON'T WANT TO DRAIN WHEN TIDE IS HIGH

2. HIGH GROUNDWATER

- a) DETENTION AND STORAGE OF WATER IS DIFFICULT OR IMPRACTICAL IN LOW AREAS OF WARRENTON
- b) STORMWATER RUNOFF FROM SATURATED SOILS ARE NEAR PEAK FLOWS FROM PAVED AREAS

3. VEGETATION GROWS VERY, VERY FAST

4. HISTORY

- a) LITTLE HISTORY IN REQUIRING STORMWATER REPORTS (UNTIL RECENTLY)

WHAT ARE DOING NOW?

1. REQUIRING STORMWATER REPORT FOR MANY/MOST DEVELOPMENTS
 - a) STORMWATER REPORT QUALITY IS LOW, BUT GETTING BETTER
 - b) SOME DEVELOPMENTS HAVEN'T MOVED FORWARD (RIDGE ROAD, E. HARBOR DR., ETC.)
2. UPDATING ENGINEERING STANDARDS
 - a) MORE DIRECTION ON REPORT REQUIREMENTS
3. HAVE ALLOWED INCREASED SYSTEM CAPACITY VS. DETENTION
4. INTERCONNECTING STORMWATER BASINS TO TAKE ADVANTAGE OF BOTH STORMWATER PUMP STATIONS

RECOMMENDATIONS

1. STORMWATER REPORT FOR EVERY DEVELOPMENT (INCLUDING RESIDENTIAL)
2. REQUIRE DOWNSTREAM ANALYSIS FOR EACH DEVELOPMENT (1/4 MILE)
 - a) DOWNSTREAM IMPROVEMENTS WILL LIKELY BE REQUIRED
 - b) DEVELOPER WILL LIKELY INCREASE DITCH AND CULVERT CAPACITY
3. REQUIRE FLOOD STORAGE CALCULATION WHERE NECESSARY
4. CITY CONSTRUCTED FLOOD AND STORMWATER STORAGE PROJECTS (WETLAND MITIGATION)
5. INCREASE CAPACITY OF STORMWATER PUMP STATIONS (NEW: ALDER CREEK, ENTERPRISE, HAMMOND)
6. UPDATE INTERNAL FLOODING STUDIES (LAST ONE 1976, INACCURATE)
7. FINANCE
 - a) IMPROVEMENTS ARE NEEDED BEFORE SOME DEVELOPMENTS CONTINUE
 - b) NEED TO FIND SOURCES TO FINANCE PROJECTS.

RECOMMENDATIONS

8. STORMWATER PUMP STATIONS
9. LARGER DITCHES AND STORAGE AREAS
10. REQUIRE STORMWATER REPORTS FOR ALL DEVELOPMENTS