

Basin	A	L	S	t <sub>c</sub>	2 year storm			100 year storm		
					C	I	Q	C	I	Q
PROPOSED SITE DA-1	1.12	180	0.01	11	0.17	2.23	0.42	0.57	6.38	4.03
PROPOSED SITE DA-2	1.97	326	0.025	12	0.26	2.17	1.11	0.93	6.19	11.36
PROPOSED SITE DA-3	0.14	95	0.019	11	0.14	2.27	0.04	0.60	6.49	0.53
PROPOSED SITE DA-4	0.21	81	0.0145	10	0.19	2.28	0.09	0.24	6.51	0.32
PROPOSED SITE - POND	0.16	83	0.0085	5	0.87	2.91	0.40	0.93	8.31	1.24
<b>Total</b>						<b>2.06</b>			<b>Total</b>	<b>17.47</b>

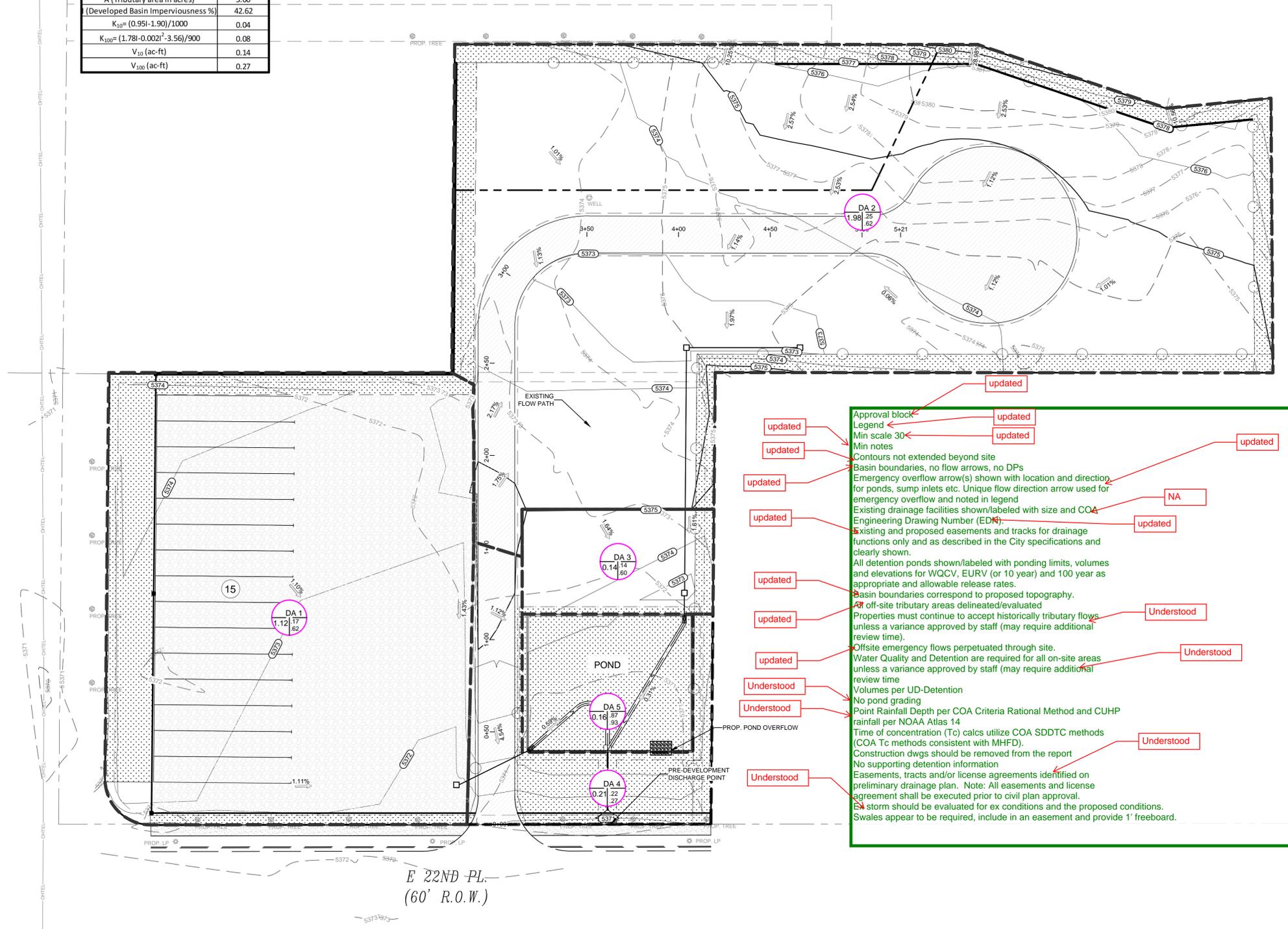
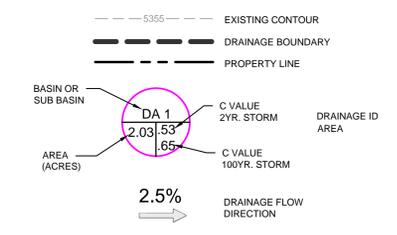
Volume and Release Rate	
V=KA	
A (Tributary area in acres)	3.60
(Developed Basin Imperviousness %)	42.62
K <sub>10</sub> = (0.951-1.90)/1000	0.04
K <sub>100</sub> = (1.781-0.0021 <sup>2</sup> -3.56)/900	0.08
V <sub>10</sub> (ac-ft)	0.14
V <sub>100</sub> (ac-ft)	0.27



**NOTES**

- REFER TO GENERAL NOTES SHEET FOR CITY STANDARD GENERAL NOTES, UTILITY NOTES AND CONSTRUCTION DESIGN NOTES.
- THE CITY OF AURORA STORM DRAINAGE CRITERIA MANUAL WAS FOR DESIGN STORM FREQUENCY, RUNOFF COEFFICIENTS AND RAINFALL INTENSITIES.

**DRAINAGE LEGEND**



Approval block updated  
 Legend updated  
 Min scale 30 updated  
 Min notes updated  
 Contours not extended beyond site updated  
 Basin boundaries, no flow arrows, no DPs updated  
 Emergency overflow arrow(s) shown with location and direction for ponds, sump inlets etc. Unique flow direction arrow used for emergency overflow and noted in legend updated  
 Existing drainage facilities shown/labelled with size and COA updated  
 Engineering Drawing Number (EDN) updated  
 Existing and proposed easements and tracks for drainage functions only and as described in the City specifications and clearly shown. updated  
 All detention ponds shown/labelled with ponding limits, volumes and elevations for WQCV, EURV (or 10 year) and 100 year as appropriate and allowable release rates. updated  
 Basin boundaries correspond to proposed topography. updated  
 At off-site tributary areas delineated/evaluated updated  
 Properties must continue to accept historically tributary flows unless a variance approved by staff (may require additional review time). Understood  
 Offsite emergency flows perpetuated through site. updated  
 Water Quality and Detention are required for all on-site areas unless a variance approved by staff (may require additional review time) Understood  
 Volumes per UD-Detention Understood  
 No pond grading Understood  
 Point Rainfall Depth per COA Criteria Rational Method and CUHP rainfall per NOAA Atlas 14 Understood  
 Time of concentration (Tc) calcs utilize COA SDDTC methods (COA Tc methods consistent with MHFD). Understood  
 Construction dwgs should be removed from the report  
 No supporting detention information  
 Easements, tracts and/or license agreements identified on preliminary drainage plan. Note: All easements and license agreement shall be executed prior to civil plan approval.  
 A storm should be evaluated for ex conditions and the proposed conditions.  
 Swales appear to be required, include in an easement and provide 1' freeboard.

**BENCHMARK**

SW COR, NW1/4 SEC.34  
 FOUND 2.5" ALLUM CAP  
 LS23501 IN RANGE BOX

**PRELIMINARY - FOR REVIEW ONLY -**  
 THESE DOCUMENTS ARE FOR DESIGN REVIEW ONLY AND NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSE. THEY ARE PREPARED BY, OR UNDER THE SUPERVISION OF:  
 MICHAEL R. GROSELLE 52071  
 TYPE OR PRINT NAME FE #  
 2022/10/14 DATE

NO.	DATE	REVISION

2252 TOWER ROAD  
 2252 TOWER ROAD  
 AURORA, ADAMS COUNTY, COLORADO

**PROPOSED DRAINAGE AREA MAP**

18280 E HAMPDEN PL  
 AURORA, CO 80013  
 PHONE: (720) 815-7937

DESIGNED:	DD	DATE:	OCTOBER 2022	PROJECT #:	22-006	SHEET:	C5.1
DRAWN:	DD	DATE:	OCTOBER 2022	PROJECT #:	22-006	SHEET:	C5.1
REVIEWER:	MG	DATE:	OCTOBER 2022	PROJECT #:	22-006	SHEET:	C5.1