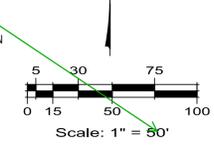


Notes typical all sheets.

LEGEND

- BOUNDARY
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EASEMENT
- FLOW ARROW
- PROPOSED BASIN BOUNDARY
- DESIGN POINT
- EXTREMITY
- PROP. BASIN DESIGNATION
- BASIN DESIGNATION
- BASIN AREA IN ACRES
- C2
- C100



Per section 2.34 Preliminary Drainage Plan

Per 2.06.1.07 add flow direction arrows, particularly at intersections. (Include these arrows within your site (slopes labeled) and minimum 50' outside of the site).

B. Proposed buildings and finished floor elevation for commercial and multi-family sites. (this note implies new construction, label existing building FFE for your site).

D. Drainage basin boundaries and design points. ... Drainage flow patterns and arrows. The flow data for the minor and major flows may be presented in tabular form. The tabular form must include design points, basin designations, minor and major flows and accumulated (routed) flows. (Include % imperviousness in the table).

E. Location of all existing and proposed drainage facilities and public and private storm drain facilities. Location of all proposed stormwater quality enhancement facilities (permanent BMPs). (This applies within and adjacent to your site)

G. Detention ponding limits, 10-year and 100 year volumes (including water quality capture volume, if used), water surface elevations for the 10-year and 100-year pond volumes and water quality capture volumes, release rates, maximum depth, emergency overflow location and direction, (EURV volume and WSEL, spillway elevation, WSEL through spillway, top of berm elevation) and other water quality BMP data as needed for the BMP.

H. Label all existing and proposed drainage facilities, either public or private, inlets, (pipes; sizes, material and length), swales, tracts, etc. Label those facilities with the design storm frequency, e.g., private storm sewer, 5-year storm capacity. (A general note can cover this requirement)

I. Preliminary cross-sections of proposed retaining walls and/or critical drainage flow paths. (In lieu of this requirement, label the retaining walls, note the material to be used, and label the max height).

J. Any other information deemed necessary to the project.

K. Vicinity map, City of Aurora benchmark, and the following note:
City of Aurora plan review is only for general conformance with City of Aurora Design Criteria and the City Code. The City is not responsible for the accuracy and adequacy of the design, of dimensions and elevations which shall be confirmed and correlated at the job site. The City of Aurora, through the approval of this document, assumes no responsibility for the completeness and/or accuracy of this document.

N. For drafting standards, scales, and other standard requirements, see Sections 2.00 through 3.03 of the City of Aurora "Roadway Design and Construction Specifications", latest edition.

Add flow arrows to illustrate runoff direction to existing facilities.

The title page of the report and the lower right hand corner of all drawings shall have the approval block outlined in section 2.35 of the COA SDD&TCM

2.03.5 Key Map Minimum scale is 1" = 500' showing the location and name of all roadways within and adjacent to the proposed development and all non-existing future roadways.

Advisory note that I&M plans and pond certificates will be required for existing ponds without such information. Proposed ponds will require I&M plans and Pond certificates per the city's guidelines.

Include flow arrows around the buildings and within the site in enough detail to show conformance with the criteria outlined below.

Per 2.08.1.06 Minimum 0.50% slope on all concrete surfaces, minimum 1% slope on all asphalt surfaces, minimum 2% slope on all grass-lined swales and landscape areas.

Per 2.08.1.06.2 The slope away from the building shall have a minimum grade of five (5) percent for the first ten feet or to the property line. Impervious surfaces within ten feet of the building foundation shall be sloped a minimum of two (2) percent away from the building.

Per Section 2.34 H add: "All storm sewer is Public/Private (choose one) and sized for the ___ year event"

Drainage - Add "All storm sewer is (choose: private/public) and is sized for the ___ yr event, unless otherwise noted.

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION, SIZE, NUMBER, AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON MEASUREMENTS TAKEN IN THE FIELD AND RECORDS OF THE VARIOUS UTILITY COMPANIES. THIS INFORMATION IS NOT TO BE RELIED ON TO BE COMPLETE OR EXACT. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION TO REQUEST UTILITIES BE LOCATED AND MARKED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.

Know what's below. Call before you dig. CALL 811 WWW.CALL811.COM

Date:	2020-03-06
No.:	INITIAL SUBMITTAL
Description:	

ENGINEERING 14190 East Evans Avenue Aurora, Colorado 80014
 COMPANY P 303.337.1393 F 303.337.7481
 Creative Solutions Since 1964 CIVIL ENGINEERS & LAND SURVEYORS
 T/F 1.877.273.0659



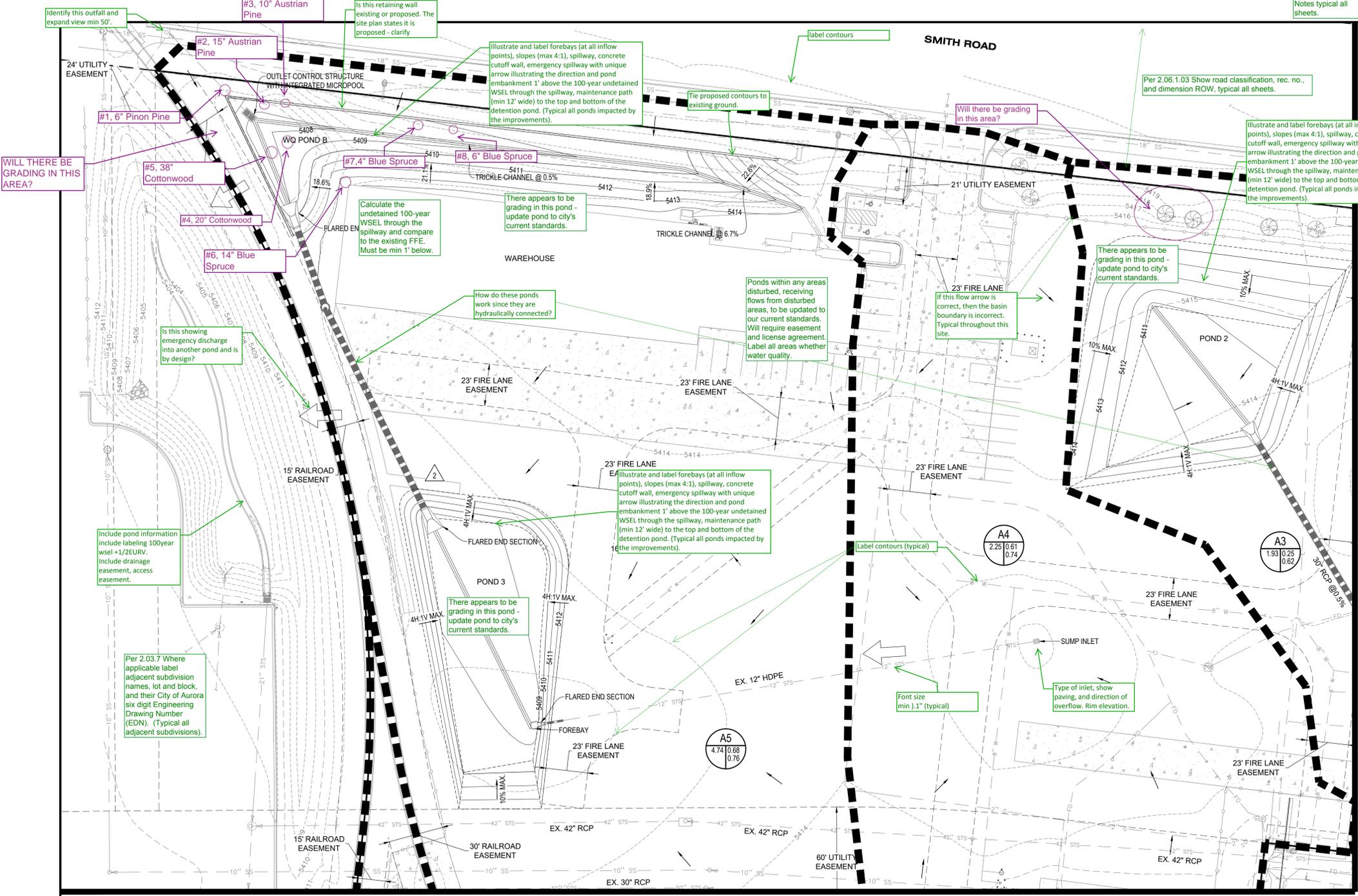
FILED: LOT 1, BLOCK 1, CHASE LUMBER SUBDIVISION FILING NO. 1 SITUATED IN THE SE 1/4 OF SECTION 33, T14N, R16W OF THE 6TH P.M. CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

DRAINAGE PLAN

BUILDERS 17600 SMITH ROAD AURORA, CO 80011 PHONE: (303) 288-4214 ATTN: CRAIG NELSON

FOR REVIEW ONLY Not for construction

Designed by:	Engineering No.:
Drawn by:	E-14-19
Checked by:	Date:
JWB	2020-03-06
Scale:	Horz.: 1" = 30'
Vert.: N/A	
Sheet No.:	



WILL THERE BE GRADING IN THIS AREA?

Is this showing emergency discharge into another pond and is by design?

Include pond information include labeling 100-year wsel +1/2EURV. Include drainage easement, access easement.

Per 2.03.7 Where applicable label adjacent subdivision names, lot and block, and their City of Aurora six digit Engineering Drawing Number (EDN). (Typical all adjacent subdivisions).

Calculate the undetained 100-year WSEL through the spillway and compare to the existing FFE. Must be min 1' below.

There appears to be grading in this pond - update pond to city's current standards.

How do these ponds work since they are hydraulically connected?

Ponds within any areas disturbed, receiving flows from disturbed areas, to be updated to our current standards. Will require easement and license agreement. Label all areas whether water quality.

Illustrate and label forebays (at all inflow points), slopes (max 4:1), spillway, concrete cutoff wall, emergency spillway with unique arrow illustrating the direction and pond embankment 1' above the 100-year undetained WSEL through the spillway, maintenance path (min 12' wide) to the top and bottom of the detention pond. (Typical all ponds impacted by the improvements).

There appears to be grading in this pond - update pond to city's current standards.

Label contours (typical)

Font size min 1/16" (typical)

Type of inlet, show paving, and direction of overflow. Rim elevation.

Clearly define the limits of proposed grading and improvements to determine detention and water quality improvements/requirements. Clearly define the limits paving and curb and gutter.

Per 2.03.5.07.1 The benchmark number, description and elevation... Desc: CHISELED SQ CENTER W EDGE CO INLET @ S PCR SE COR RIFLE ST & E 25TH AVE. Verify this work is on the 88 datum - it appears to be, however verify datum.

PAVING NOTE

ALL PAVING, INCLUDING CURB, GUTTER, AND SIDEWALK, TO BE INSTALLED OUTSIDE OF PUBLIC RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SITE SPECIFIC "REPORT OF GEOTECHNICAL ENGINEERING EVALUATION - PROPOSED DOLLAR GENERAL - MEADOWLARK DRIVE & WELD COUNTY ROAD 8 - BERTHOUD, COLORADO" PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. AND DATED SEPTEMBER 10, 2019; OR AS MAY HAVE BEEN AMENDED HENCE. RECOMMENDATIONS TO BE FOLLOWED INCLUDE, BUT ARE NOT LIMITED TO, THE PAVEMENT SECTION, MATERIALS, AND SUBGRADE PREPARATION. THE CONTRACTOR SHALL COORDINATE APPROVAL FOR INSTALLATION OF ANY ALTERNATE RECOMMENDATIONS INCLUDED IN THE INVESTIGATION OR DESIRED MODIFICATIONS TO THE RECOMMENDATIONS WITH THE OWNER/DEVELOPER AND/OR THEIR CONSTRUCTION MANAGER PRIOR TO BID AND PRIOR TO CONSTRUCTION.

BENCHMARK

CITY OF AURORA BM #356633NW002 CHISELED SQUARE ON THE CENTER WEST EDGE OF CURB OPENING INLET AT THE SOUTH PCR AT THE SOUTHEAST CORNER OF RIFLE STREET AND EAST 25TH AVENUE. ELEVATION: 5414.00 FEET (NAVD 1988 DATUM). THE CONTOURS SHOWN HEREON ARE AT ONE (1) FOOT INTERVALS.

DETENTION POND DATA - WQ POND B AND POND 3

DETENTION POND TRIBUTARY AREA = 6.98 ACRES	Correct elevations and additional information requested.
MICROPPOOL WSEL = 7.65'	
WQCV = 0.115 ACRE-FEET; WQCV ELEVATION = 9.42; DEPTH = 1.77'	
EURV = 0.419 ACRE-FEET; EURV ELEVATION = 10.71; DEPTH = 3.06'	
100-YEAR+1/2 EURV = 0.861 ACRE-FEET; 100-YEAR+1/2EURV WSEL = 14.57; DEPTH = 6.92'	

For Detention Ponds: Drainage easements are required for all ponds. Access easements from the drainage easement to public right of way are required for maintenance access. Show/label pond maintenance access to the pond bottom and top of the outlet structure. Indicate direction of emergency overflow. A license agreement is required for the entire detention pond.

MATCH LINE - SEE SHEET C202

MATCH LINE - SEE SHEET C202

