

Planning and Engineering
15151 E. Alameda Parkway, Suite 3600
Aurora, Colorado 80012

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Preliminary Drainage Report (PDR) Review Checklist

Checklist to be filled out by License Civil Engineer in the State of Colorado as the Engineer of Record (EOR). Checklist shall be uploaded separately with the drainage report and included in the appendix the drainage report. Checklist shall be used as a guidance document only and shall not be considered comprehensive for submittal requirements. Please ensure reference of the most recent Storm Drainage and Technical Criteria Manual.

*****Submittal shall be held if all applicable items are not included*****

Preliminary Drainage Report will be limited to three (3) reviews, additional review fees will apply to the fourth (4th) review.

Subdivision Name: 38th Avenue - Himalaya to Ode

Engineering Co.: HR Green LLC Phone: 720-602-4938

Engineer (EOR) Name: Kristine House Email: khouse@hrgreen.com

Owner Company: _____ Phone: _____

Contact Name: _____ Email: _____

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| | Please note that the following items are not to be included on the Preliminary Drainage submittal: | | |
| | Sizing of orifices or restrictor plates for WQCV, EURV or 100 year flood events | | |
| | Water surface profiles with RAS modeling | | |
| | Storm drain sizing | | |
| | Temporary erosion control measures (permanent only shown schematically) | | |
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| | Check HERE if a Master Drainage Plan has been reviewed and approved in the last twelve (12) months. Preliminary Drainage Plan shall be in conformance to Master Drainage Plan. Provide EDN # | <input checked="" type="checkbox"/> | |
| | | Included | N/A |
| | Drainage Planning Process | | |

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| 1 | Drainage kick-off meeting (to discuss general concepts and identify significant issues related to the drainage concepts and shall be limited to one (1) hour) scheduled and held with MHFD and City Drainage staff (and any other relevant municipalities) prior to submittal of Preliminary Drainage. Required for all sites with MEP facilities, stream management corridors (identified on MHFD website), regional ponds, major outfalls, basins > 130 acres prior to submittal of Preliminary Drainage Report and Plan. Applicant shall include meeting minutes, that have been reviewed by all attendees, from this meeting in the appendix. Please note, per Colorado Revised Statutes 32-11- 221(1), these improvements require MHFD approval. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 | Drainage Plan matches Planning Site plan (site layout, easements, etc.). | <input checked="" type="checkbox"/> | |
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| | Referrals | | |
| 3 | Identify and confirm referrals to all relevant outside agencies have been made (CDOT, DEN/DIA (drainage and utilities), MHFD, CCBA, E-470, easement holders, etc.). Please include copy of transmittal(s) to required agencies. (implementation date TBD) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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| | Format and General Items | | |
| 3 | Drainage Plan matches Site Plan and plat (Site layout, easements, etc.). | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4 | Drainage design for adjacent roadways included. (<i>Confirm with site plan what roads are being improved. Drainage Report should include drainage design for all roadways being improved even if roadway construction is deferred</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5 | Project Phasing Shown (<i>If project is to be phased, then phasing must be described in PDR report text and shown on plan. Hydrologic analysis of different phases may be required and multiple plan sheets may be needed.</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | All drainage design should conform to City of Aurora Storm Drainage Design & Technical Criteria (COA SDDTC). | <input checked="" type="checkbox"/> | |
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| | Report | | |
| 7 | COA approval block on report cover. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 | Formal Subdivision name on report cover. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 | Required report outline/Table Of Contents/content followed (SDDTC Sect 2.30). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | Advisory note that PDR approval is required prior to Civil Plan Approval. | <input checked="" type="checkbox"/> | |
| 11 | Variances - All requested variances must be numerically listed with justifications in section A.2.c of the Report. If no variances, | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| | state “None.” All variances require supervisor level approval and will require additional review time. | | |
| 12 | Discuss effects of proposed development on adjacent, upstream and downstream sites under both existing and future buildout condition. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | |
| | Preliminary Drainage Plan | | |
| 13 | Drainage Plan uploaded as separate full-size dwg. | <input checked="" type="checkbox"/> | |
| 14 | COA approval block on drainage plan first sheet. | <input checked="" type="checkbox"/> | |
| 15 | No copyright notes on plan. | <input checked="" type="checkbox"/> | |
| 16 | Legend. | <input checked="" type="checkbox"/> | |
| 17 | Formal Subdivision name in title block of drainage plan. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 18 | Minimum scale 1”=50’ for single family. 1”=30’ for multi-family and commercial. When drainage plan is on more than one sheet an <i>overview sheet showing entire site shall be provided.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 19 | General Notes required on plan (not comprehensive – see drainage specs): 1. City of Aurora review is only for general conformance (see Section SDDTC Section 2.22KJ). 2. Ref COA NAVD88 benchmark. 3. Design recurrence interval (minor or major) for storm pipe infrastructure. 4. State storm infrastructure is private or public. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 20 | Contours two feet (2’) maximum, fifty feet (50’) min beyond property line and shown for all off-site tributary areas. Offsite tributary areas may be shown on a separate 11x17 in report. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 21 | Building FFE’s shown (commercial and multi-family). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 22 | Floodplain, floodway, FEMA panel #, effective date and BFE’s shown. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 23 | Retaining wall(s) locations (only) shown. Preliminary section with maximum height, any footer or geotechnical reinforcing shown and property line or ROW line shown. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 24 | Drainage basin boundaries, flow arrows and design points shown. Offsite basins may be shown on separate plans in report. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 25 | 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. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 26 | Table of flows, C values and percent impervious for individual basins and design points shown on plans. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 26 | Existing drainage facilities shown/labeled with size and COA Engineering Drawing Number (EDN). | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 27 | Proposed drainage facilities shown/labeled with asset type (no sizing of pipes/inlets). | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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| 28 | Existing and proposed easements and tracks for drainage functions only and as described in the City specifications and clearly shown. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 29 | All detention ponds shown/labeled with ponding limits, volumes and elevations for WQCV, EURV (or 10 year) and 100 year as appropriate and allowable release rates. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 30 | Cross sections for all swales, channels and critical emergency flow paths (show geometry, 100 year flow depth, Q100, freeboard). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 31 | Prelim plan and profile for all channels. WS profile not required but do show utilities, culverts, grade controls, bank protection. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 32 | Drafting standards – reference Sections 2.00 – 3.03 of Roadway Design Manual. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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| | Previous Studies and Master Plans | | |
| 33 | All sources for previous relevant drainage studies are reviewed and intent of each incorporated. <i>(Reports/studies can be found for regional drainage studies, previous site studies, and adjacent site development drainage plans on the MHFD website and City's document website.)</i> Include a label on plan with City EDN number where applicable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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| | Hydrologic Analysis | | |
| | Basin Delineations | | |
| 35 | Basin boundaries correspond to proposed topography. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 36 | All off-site tributary areas delineated/evaluated <i>Properties must continue to accept historically tributary flows unless a variance approved by staff (may require additional review time).</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 37 | Offsite emergency flows perpetuated through site. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 38 | Water Quality and Detention are required for all on-site areas unless a variance approved by staff <i>(may require additional review time)</i> . | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 39 | Design points shown on plan. | <input checked="" type="checkbox"/> | |
| | | | |
| | Rainfall/Design Events | | |
| 40 | Point Rainfall Depth per COA Criteria <i>Rational Method and CUHP rainfall per NOAA Atlas 14.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 41 | Urban Center or Transit Oriented District (TOD) 100 year design capacity is required of all storm conveyance systems, see COA SDDTC for limitations on street flow depth. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 42 | City Center Zone (five (5) year minor event). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | Rational Method (only for <= 90 acres) | | |

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| 43 | NRCS soils data map included with site boundaries delineated. Imperviousness and C values reflect correct hydrologic soil group per City Criteria. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 44 | Imperviousness and C Values in compliance with Master Drainage Plan (if applicable) and reflect Planning Department site plan. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 45 | Time of concentration (Tc) calcs utilize COA SDDTC methods (COA Tc methods consistent with MHFD). | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 46 | Confirm Weighted C and percent impervious, Tc, Intensity, peak flows. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 47 | Confirm routed/accumulated flows at critical locations (ponds, storm inlets, etc.) including design points. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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| | CUHP (See MHFD published criteria for items not yet published in COA SDDTC) | | |
| 48 | Depression loss values correspond to COA Criteria. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 49 | Infiltration method parameters correspond to COA Criteria. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Impervious calculations reflect City percent impervious values. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 51 | Confirm Directly Connected Impervious Area (DCIA) Level is accurate <i>0 unless distributed LID measures utilized throughout watershed. For example, providing ponds, rain gardens, or other approved water quality BMP's sized for the subdivision or large portions of it does not justify DCIA Level > 0.</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 52 | Confirm basin areas, percent Impervious and WQCV portion of pond is 100% impervious. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | SWMM | | |
| 53 | Link-node diagram included, and DP's shown on plan. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 54 | Pond storage rating curves match plan/calcs. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 55 | Pond discharge rating curves match calcs. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 56 | Confirm CUHP output hydrographs input to correct nodes and link node connectivity and continuity error not significant. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | |
| | <u>Hydraulic Analysis</u> | | |
| | Special Considerations | | |
| 57 | If site is tributary to Norfolk or City Center Ponds, and utilizing these regional detention facilities for detention, additional fees are required (see published fee schedule). NOTE: Water quality still required on site. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 58 | If site is tributary to Aurora Reservoir, special water quality conditions exist. Please refer to specification manual. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | New (or Modified) Ponds | | |
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| 59 | Applicable detention and EURV/water quality requirements are met. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Volumes per UD-Detention or CUHP/SWMM. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 61 | Proposed ponds do not classify as a jurisdictional dam(s) designation. City will require the applicant to provide a letter of determination (from the State Engineers Office) when the proposed pond is within 0.5' of jurisdictional height as defined by State Engineers Office. Additional review time may be required. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 62 | Elevation of top of embankment is a minimum of one foot (1') above the water surface elevation over the emergency weir when the weir is conveying the maximum design or emergency flow. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 63 | Adjacent FFE's are a minimum of one foot (1') above pond emergency overflow water surface elevation. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 64 | Total drainage area and percent impervious for each pond correctly computed. <i>(Reminder: check criteria manual for requirements for off-site tributary areas Water Quality is required for entire tributary area to the Water Quality Facility. Detention/EURV for offsite areas may be permitted to pass through, discuss with COA prior to submittal.)</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 65 | Pond release rates, volumes and 100 year water surface elevation per COA criteria and clearly shown on Drainage Plan. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 66 | All Ponds, underground detention and WQ devices are contained in "Drainage Easements" (easement shall include additional four feet (4") from the perimeter of underground detention and WQ devices). Access to these from ROW is to be shown as a City "Access Easement" (note this is not a public access easement). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 67 | Access provided to forebays and outlet structure (top and bottom)in compliance with COA Specs. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 68 | Pond berm slopes are maximum 4:1. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 69 | <p>Pond emergency spillway flows and direction clearly shown on plan.</p> <ul style="list-style-type: none"> Existing historic flow patterns shall be maintained. If discharging to an adjacent developed property - demonstrate one foot (1') of freeboard to all existing structure Finish Floor Elevations. If emergency spillway flows are maintained on-site until reaching major watershed creek, ensure flows will not negatively impact properties along the flow path. All emergency spillway flow paths on site shall be in a drainage easement until reaching major watershed creek or ROW. All emergency overflows which discharge onto other undeveloped sites shall include a note on the plans indicating the owner shall perpetuate the flows. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 70 | If pond is within 10,000 feet of any airport and within five (5) miles of DIA/DEN, applicant to confirm drain time requirements and incorporate in pond design (i.e. Denver International Airport, forty (40) hour max drain time and no exposed micropool required). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 71 | Permanent erosion control shown schematically on PDR Plan. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | Use of Existing Ponds | | |
| 72 | Provide the following callout note: <i>“Applicant understands re-certification may be required. If pond certificate, an executed I&M plan, or drainage easements do not exist, they will be required prior to Civil Plan approval.”</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 73 | If pond is being expanded or changed due to tributary area change, percent impervious increase or some other aspect of the pond is being changed, then City will require that pond be brought up to current design standards (freeboard, EURV, access, easement dedications, etc.). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | Specialty Water Quality Devices and Measures | | |
| 74 | Subsurface, proprietary water quality devices only allowed with authorization from Aurora Water. Will not be allowed in greenfield development or to increase development density. If allowed, proprietary WQ device must achieve requirements set forth in the City criteria manual. Maintenance access that does not require traffic control must be provided. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 75 | Water quality measures including rain gardens, grass swales, Etc. shall be designed per City criteria and design spreadsheets (MHFD) or equivalent included. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | |
| | Streets/Alleys | | |
| 76 | Included street capacity calcs for public and private streets, drives and alleys. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 77 | Inlets shown upstream of curb returns where two (2) streets sloping down to an intersection per Aurora Roadway Manual. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 78 | Cross Pans – refer to latest version of Roadway Design Manual. Cross Pans are not allowed across collector or arterial roadways, nor are they allowed on roadways with storm sewer systems.” | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 79 | When a street or alley with a steep grade ends at a T intersection, evaluate and mitigate flooding potential for properties at the end of that intersection including one foot (1') of freeboard for FFE and no inundation of garages for the 100 year event. See Drainage Criteria Manual for details. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | Storm Drainage System | | |

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| 80 | If connecting to an existing storm sewer pipe, at the point of connection, call out the offsite flow rate projected for the receiving storm sewer system and reference the name and date of the study. If no previous study exists, analysis showing adequate capacity must be performed by Applicant and provided with PDR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 81 | Sump inlets identified and emergency overflow shown on plan (with emergency flow arrows) and confirm one foot (1') minimum freeboard from 100 year WSEL to building FFE's (existing and new). Report shall include associated verbiage and calculations. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 82 | Emergency overflows shall not discharge onto adjacent sites unless extreme condition exists (to be included in Variance list and approved by Engineering Services Manager). If allowed, applicant must include a note on the plans that clearly indicates that the adjacent property owner shall perpetuate the flows. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 83 | 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. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 84 | All storm lines and inlets labeled as public or private to identify maintenance obligations, subject to review by Aurora Water. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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| | Culverts | | |
| 85 | Sized (100 year capacity, twenty-four inch (24") minimum diameter or box minimum height six feet (6') if width > eight feet (8')), shown and labeled if under public roads. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 86 | Emergency overflow provided per criteria (one foot (1') freeboard to FFEs) and labeled with WSEL. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 87 | Maintenance access provided both u/s and d/s of culverts with twenty foot (20') minimum access around all riprap, headwalls and wingwalls at the outlet. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 88 | Easements, tracts and/or license agreements identified on preliminary drainage plan. Note: All easements and license agreements shall be executed prior to civil plan approval. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | Channels | | |
| 89 | Regional Channels shall be designed for MEP (for maintenance eligibility) per MHFD. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 89 | COA criteria for slope, velocity, Side slope freeboard one foot (1'), etc. are met. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 90 | Preliminary plan, profiles, and typical section with normal depth calculations shown on plan along with drops, bank protection and utilities. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 91 | Channels within DEN/DIA drain time zone may not be allowed to have any adverse slope sections and require special plant palette. DEN/DIA review required. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 92 | Permanent erosion control shown schematically (note: FDR and civils shall provide design for permanent erosion control). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | Outfalls | | |
| 93 | Proposed outfall corresponds to any previously proposed/planned location (MDP for larger site, previous subdivision drainage reports, etc.) Include report reference label next to outfall. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| | Floodplains | | |
| 94 | Floodplain limits, BFE's and FEMA map panel # and effective date shown on plan if within three hundred feet (300') limits of grading or construction. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 95 | <p>"Best available information" 100 year floodplains (BAIF) including floodway and Base Flood Elevations must be clearly identified.</p> <ul style="list-style-type: none"> Sources to determine BAIF sources include COA website (effective FIRM's and LOMR's), MHFD website for recent FHADs, and FEMA Map Service Center (Preliminary status maps) Engineer is encouraged to contact City Floodplain Administrator to confirm source of BAIF. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 96 | Add this callout note to any work planned within the floodplain <i>"Applicant understands that construction or grading in 100 year Floodplain requires Floodplain Development Permit which must be obtained prior to grading or construction can commence."</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 97 | For new development, no portion of residential lots can be shown within an existing floodplain. Minor portions of commercial/industrial lots may be allowed in existing floodplain if they meet the non-residential BFE requirements, Floodplain Administrator approval required and additional review times may apply. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 98 | Residential Lowest Floor Elevation (LFE)'s are two feet (2') minimum above Base Flood Elevation (BFE). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 99 | Non-residential LFE's are one foot (1') minimum above BFE. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Setback requirement per latest version of the Storm Drainage Criteria manual. Consider any applicable fluvial hazard boundary studies and adjust corridor to account for potential stream corridor movement. Identify location and reference study name/date on plan. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | |
| | Swales | | |
| 101 | swales must be constructed per drainage criteria manual for minimum slopes, underdrain, and/or lining requirements. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 102 | Easements, tracts and/or license agreements identified for public infrastructure per criteria. Note: all dedications and/or signed agreements required as part of the plat approval or prior to CD approval. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 103 | Top of Swales for offsite drainage (not lot drainage) shall be a minimum of two feet (2') from the property line to avoid disturbance by fencing | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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I hereby certify that the information provided above is complete and accurate.

Kristine House

Engineer of Record Printed Name

Kristine d House
Signature

10/26/23

Date

Lead Engineer

Engineer of Record Title