

# Grading & Drainage (G&D) Subdivision & Commercial Checklist

KIVA #:	Project Name:	
Reviewed By:	Phone:	Date:
Professional Engineer:		Phone:
submittal requirements for Gr	is to offer comments on plan design for a ading and Drainage (G&D) plans. The s 32A, and City of Phoenix (City) Storm V	source of the G&D design policy is Phoenix
reviewers on plans for cuts, fil approval, issuing permits, and	II, drainage swales, drainage structures d certain grading clearances depend on	nts and to maintain consistency among plan and pipes, and retention areas. Plan compliance with the comments made on the satisfy themselves of the completeness and
		s. Additional review fees (see Fee Schedule nstatements to update expired plan reviews.
	e attached to the G&D plans when subn be signed by the Professional engineer of t have been met.	
	CERTIFICATION	
STANDARDS, INCLUDING F ADDITION, I CERTIFY THAT ARE PROPERLY ADDRESS	FEDERAL, STATE AND COUNTY REQ THIS CHECKLIST HAS BEEN COMP ED. I UNDERSTAND THAT IF I FAIL T INS MAY BE IMMEDIATELY RETURNE	APPLICABLE CITY ORDINANCES AND QUIREMENTS AND REGULATIONS. IN LETED ENSURING ALL ITEMS LISTED TO ADDRESS ALL APPLICABLE ITEMS IN ED TO ME WITHOUT ANY FORMAL
_	me:	
Professional Engineer's Sig	gnature: D	Date:
Please complete and return the comments on plans or this ch	nis checklist and the check prints with ea ecklist should be directed to the plan rev	ach submittal. Discussion of redline viewer listed above.
Professional engineer of reco	rd <b>(ENG)</b> <u>must</u> fill out <u>all</u> boxes in the <u>firs</u>	$\underline{\operatorname{st}}$ column as either $\boxed{\ \ }$ (Addressed) or
Civil plan reviewer ( <b>RVW)</b> sha properly addressed.	all check the <u>second</u> column as X (Re	equired) when requirements have not been
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For more information or for a copy of this publication in an alternate format, contact Planning & Development at (602) 262-7811 voice or TTY use 7-1-1.

#### **REQUIRED SUBMITTALS**

	W
1. 🗌 🔲	Plan sheets shall be 24-inch X 36-inch; submit three (3) sets of G&D plans.
2. 🗌 🔲	One (1) copy of the approved preliminary Site plan for major projects <b>OR</b> one (1) copy of the first review Site plan mark-up for minor projects.
3. 🗌 🔲	A sealed and bound drainage report if site is impacted by offsite flows, or drainage calculations shown on the cover sheet of plans and drainage memo if no offsite flows.
4. 🗌 🗀	A sealed and bound geotechnical report (required when one (1) foot or more of fill material is indicated or slopes with cuts or fills steeper than 1 ½:1 or retaining walls included), one (1) set of paving plans, if applicable, and a completed and signed G&D Plan Checklist. If retaining walls are required, provide structural drawings for all retaining wall heights and special conditions on the plans, structural calculations for all wall heights including surcharge loads on the plans, Special Geotechnical Inspection Certificate for soils, and Special Structural Inspection Certificate for retaining wall construction.
5. 🗌 🔲	Cost estimate if there is construction in right of way (R/W) or public easement (G&D Combination).
6.	This project meets the requirements of the City's Stormwater Post-Construction Program per PCC Chapters 32A and 32C and the City's Stormwater Policies and Standards. A copy of the Stormwater Post-Construction Control Operations & Maintenance Plan (TRT 00132) shall be submitted with this plan.
7. 🗌 🔲	G&D Subdivision & Commercial Checklist – TRT 00047.
	<b>Note:</b> If submitting through the <u>Electronic Plan Review</u> system, multiple copies of submittal documents are not required.
	GENERAL REQUIREMENTS
ENG RV	
	W Separate offsite plans with drainage facilities should be submitted with G&D plans unless those
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ENG RV	W	
9. 🗌 🗍	Per Section 6.8.8 of the City Storm Water Policies and Standards, the maximum depth of ponded water within any parking lot location shall be six (6) inches with the deeper portions confined to remote areas of parking lots, whenever possible. The minimum longitudinal slope permitted within parking lot storage facilities is 0.005 ft/ft, unless concrete valley gutters are provided. With concrete valley gutters, a minimum longitudinal slope of 0.002 ft/ft is permitted.	
10. 🗌 🗌	A public Drainage Easement is required around the onsite retention area that is to retain the offsite flows (R/W or Easements) when offsite flows are taken onto private property.	
11. 🗌 🗍	A Drainage Report is required to be submitted for any projects that are impacted by offsite flows. If there are no offsite flows impacting the site a Drainage Statement and calculations will be adequate on the cover sheet of the plans. A separate drainage memo will be required to substantiate that the site is isolated from off-site flows. If a Drainage Report is required, please include the KIVA# and the CPGD# on the cover sheet of the report.	
12. 🗌 🗌	Complex Drainage Reports (subdivisions, properties with washes, hillside properties, properties in floodplain, etc.) should include hydrology parameters and assumptions and include methodology for developing quantities. Also include computer runs from HEC-1 or other programs utilized to develop flows from contributing area. Storm water routing through channels should include HEC-2 or other programs used to model the hydraulics including backwater computations. A disk with input data should be furnished with your plan review submittal when a computer program is utilized in the design.	
13. 🗌 🗌	This project is subject to the National Pollutant Discharge Elimination System (NPDES) / Arizona Pollutant Discharge Elimination System (AZPDES) requirements for construction sites under the Construction General Permit (CGP). Owners, developers, professional engineers, and/or contractors are required to prepare all documents required by this regulation, including but not limited to: Stormwater Management Plan (SWMP), Notice of Intent (NOI), and/or Notice of Termination (NOT). Guidance is available online through Maricopa County Flood Control District at Maricopa County Business Tools and the Arizona Department of Environmental Quality ADEQ – What is Stormwater?	
14. 🗌 📗	Existing irrigation supply ditches and/or irrigation tail water ditches on this site, or in R/W adjacent to this site, must be replaced with an underground pipeline, or abandoned subject to the approval of the irrigation company and/or downstream users. Limits of construction and scope of work shall be shown on the plan.	
COVER SHEET REQUIREMENTS		
ENG RVW  1 □□□	Provide a Blue Stake notification decal.	
2.	Indicate plan types:	
	ENG RVW	
	a. □ □ G&D Plan	
k	o. ☐ ☐ G&D Plan with Drainage Facilities (in R/W or Easement)	
C	c. 🔲 🔲 G&D Plan with Offsite Improvements (combination)	
C	I G&D Plan with Hillside (separate Hillside checklist and review required)	
3. 🗌 🗀	Provide a project title block with name and address of project.	
4. 🗌 🗀	Provide a project description.	
5. 🗌 🗀	Provide a vicinity map with north arrow.	
6. 🗌 🗀	Provide an index of plan sheets if more than one plan sheet.	
7. 🗌 🗀	Provide a key map if more than one plan sheet.	

ENG RVW
8. $\square$ Provide the Owner's and Developer's name, address, and telephone number.
9. $\square$ Provide the Professional engineer's name, address, and telephone number.
10. 🗌 🔲 Provide the address and legal description of the project.
11.   Provide the appropriate processing numbers including: KIVA#, CPGD # and city Quarter Section Number in lower right corner.
<ol> <li>Provide a legend identifying grades, symbols, lines, etc. per Maricopa Association of Governments (MAG.) Specifications and Details.</li> </ol>
13.  ☐ Provide the offsite quantities if they are part of the G&D Plan submittal.
14.  ☐ Provide all retention calculations and storm event type.
15.   Provide a drainage statement that includes the following:
ENG RVW
a.   Site is in a Special Flood Hazard Area (Y) (N)
b.   Offsite flows affect this site (Y) (N)ADMP or   N/A
c.   Retention provided is for the storm event
d.   Extreme storm outfalls the site at at the elevation of
16. 🔲 🔲 Provide a drainage memo for sites not impacted by offsite flows that includes the following:
ENG RVW a. ☐ ☐ Refer to the appropriate Area Drainage Master Plan (ADMP) that may be affecting the site. ADMP information can be obtained on Maricopa County's Flood Control District's website: <a href="https://gis.maricopa.gov/flo-2dmodels/map.html">https://gis.maricopa.gov/flo-2dmodels/map.html</a>
b.   Existing site conditions (professional engineer's site visit)
c. Distribution on estimated flows (peak flow based on per acre basis and peak flow from Flo-2D)
d.   Street capacity calculations (flow contained within the R/W and do not flow through the site)
e.   Reference any as-built information available
f.   Provide a conclusion
17. Provide elevation datum and benchmarks (city datum required). Please dial (602) 495-2050, ext. 65 (voice) or (602) 534-5500 or 7-1-1 (TTY), to obtain city datum for existing benchmark closest to the project site. Equations cannot be used. Note on Plans NAVD 29 (North American Vertical Datum 1929).
18. 🗌 🔲 Provide net acreage and total disturbed area of the site.
19. 🗌 🔲 Provide retaining walls unit length.
20.   Provide a retention basin table that includes a column for the volume provided, volume required, and "As-built" volume.
21 Provide an As-Built Certification Statement on the plans as follows:

#### **AS-BUILT CERTIFICATION**

	WER	E MADE	ERTIFY THAT THE "RECORD DRAWING" ME E UNDER MY SUPERVISION OR AS NOTED A EDGE AND BELIEF.	
	REG	ISTERE	D ENGINEER/ LAND SURVEYOR	DATE
	REG	ISTRAT	ON NUMBER	
		-	NOTES FOR GRADING AND DRAINAGE PLA Grading and Drainage Notes (City o	
ENG	RVW			
1.			permit is required under PCC Chapter 32A.	
2. 📙		Vhen ha permit.	ul permits are required, they must be obtained p	orior to or concurrently with the G&D
3. 🗌	g	giving pe	ng Contractor must give location for wasting exc rmission for dumping prior to starting on-site co c yards, the disposal site will also require a G&I	nstruction. If excess excavation exceeds
4. 🗌		_	& Development Department Field Inspection G nd/or off-site construction begins, telephone (60	•
		<u>Incl</u>	ude the note(s) below that are applicable (m	inimum of 1 required):
			nish floor elevation is mandatory if structure is l Jse the AS-BUILT CERTIFICATION, plus:	ocated in a floodplain or other critical
	EN	G RVW	1	
	a.		Staking building pad elevations is the responsibengineer. The Owner's Professional engineer solutions and Drainage Plan designated as "Recasting and Drainage Plan designature") prior to the request for final inspections.	shall submit three sealed copies of this cord Drawing" (bearing an original
	b.		Staking finish floor elevations is the responsibil engineer. The Owner's Professional engineer Grading and Drainage Plan designated as "Resignature) prior to the request for final inspection	shall submit three sealed copies of this cord Drawing" (bearing an original
	c. [		A Federal Emergency Management Agency (F finished construction must be reviewed and apeach new and substantial improvement structu Area (SFHA) prior to issuing a Certificate of Occertificate must be submitted to the General or	proved by Floodplain Management for ure constructed in a Special Flood Hazard ccupancy. A copy of the elevation
6. 🗌	s s s	Civil/Site submitted and Drain shown or	pad certifications will be required on all lots with Inspector prior to any concrete constructed in to to the Civil/Site Inspector by either submitting nage plan or in letter format showing the design the approved Grading and Drainage plan. It is a Civil Professional engineer or Land Surveyor	he R/W. Building pad certification can be one approved black-line as-built Grading and as-built building pad elevations as required that the as-built plan and letter be

# **ENG RVW** 7. A separate permit is necessary for any offsite construction. 8. An approved G&D Plan shall be on the job site at all times. Deviations from the plan must be preceded by an approved plan revision. 9. G&D Plan approval includes the construction of all surface improvements shown on the approved plan, including, but not limited to, retention areas, sedimentation basins, and/or other drainage facilities, drainage patterns, walls, curbs, asphalt pavement, and building floor elevation. 10. Grades shown in retention basins are design finished grades. Should the contractor or any subcontractor plan to place spoil dirt from footings, utility trenches, landscaping, swimming pools, etc. in the basins, the basins should be sufficiently over-excavated during the rough grading operation to allow for the placement of the fill or landscaping materials. 11. Contractor is responsible for locating and confirming depths of all the existing utility lines within proposed retention basin areas. If the basin cannot be constructed per plan because of conflicts. the contractor should discuss modification of basin configuration with the city inspector to determine if a plan revision or a field change is required. 12. All drainage protective devices such as swales, interceptor ditches, pipes, protective berms, barrier walls, concrete channels, or other measures designed to protect adjacent buildings or property from storm runoff must be completed prior to building construction. 13. Per Section 6.8.7 of the City Storm Water Policies and Standards, side slopes of storm water storage facilities shall be no steeper than 5:1 for irrigated grass areas and 3:1 for landscape areas. Slope stabilization measures are required for all slopes greater than 5:1. The slope stabilization measures must be readily maintainable using common maintenance equipment and be designed with consideration to aesthetics. The slope stabilization measures shall be consistent with commonly used engineering practices. Un-stabilized decomposed granite is not allowed on slopes greater than 5:1. 14. All retaining walls are to be reviewed, permitted, and inspected by the Building Safety Branch of the Planning & Development Department. All retaining walls are to be in accordance with Section 703 of the Zoning Ordinance and Section 32-32 of the Subdivision Ordinance for specific wall height requirements. **Note**: Use permit for is required for all over-height retaining walls. 15. All ramps must meet 2010 Americans with Disabilities Act (ADA) Standards for Accessible Design and City of Phoenix Supplement to MAG Uniform Standard Specifications and Details; 2% max cross slopes and 12:1 max longitudinal slopes. 16. The Certificate of Occupancy (C of O) and/or final electrical clearance for any building is denied until all G&D improvements are completed. 17. Existing or newly damaged and/or displaced concrete curb, gutter, sidewalk, or driveway slab that is within the R/W shall be repaired or replaced, as noted by city inspectors, before final acceptance of the work. 18. The Engineering Design on these plans is only approved by the city in scope and not in detail. Construction quantities on these plans are not verified by the city. Approval of these plans are for permit purposes only and shall not prevent the city from requiring correction of errors in the plans where such errors are subsequently found to be in violation of any law, ordinance, health, safety, or other design issues.

ENG RVW		
,	The City Police Department enforces laws regulating the operation of commercial vehicles. This includes enforcement of federal, state, county and local laws and ordinances. Questions regarding Commercial Vehicle Enforcement may be directed to the Commercial Vehicle Enforcement Supervisor at (602) 495-7813 (Traffic Bureau South) or (602) 495-6784 (Traffic Bureau North), or 7-1-1 (TTY).	
s e s	Plan approval is valid for 12 months. Prior to plan approval expiration, all associated permits shall be purchased or the plans shall be resubmitted for extension of plan approval. The expiration, extension, and reinstatement of Civil Engineering plans and permits shall follow the same guidelines as those indicated in the Phoenix Building Construction Code Administrative Provisions Section 105.3 for Building permits.	
	The following notes shall be shown on the cover sheet of combination G&D and Offsite Improvement Plans:	
ENG RVW		
Sp	onstruction within the R/W shall conform to the latest applicable MAG Uniform Standard becifications and Details and the latest City of Phoenix Supplement to the MAG Uniform and Specifications and Details.	
2. Co	ompaction shall comply with MAG Section 601.	
	ostructions to proposed improvements in the R/W shall be removed or relocated before eginning construction of the proposed improvements.	
	e actual point of pavement matching and/or termination shall be determined in the field by the ty Planning & Development Department field inspector.	
P1 Sta	evement replacement thickness and type are to be per MAG. Section 336 and City Detail 200 -Type B. Curb and gutter replacement shall be a minimum of one (1) full section, per MAG and and Detail 220. Sidewalk replacement shall be a minimum of one (1) full panel per C.O.P. etail P1230.	
rer res the	ees and shrubbery in the R/W that conflict with proposed improvements shall not be moved without approval of the city Landscape Architect or his assignees. The permittee shall be sponsible for obtaining authorization to remove and/or relocate said trees or shrubbery by calling a Parks and Recreation Department at (602) 262-6501 and Transportation Department at (602) 4-9898.	
cu <sup>i</sup> tha Fo	er the Street Pavement Cut Policy (TRT 00164) and City Ordinance G-6308, all street pavement its will require asphalt resurfacing treatments based on the age of the pavement. For streets less can two (2) years old, the permittee must apply an asphalt mill and overlay pavement treatment. For streets greater than two (2) years old, the permittee must apply a slurry seal and/or microseal eatment.	
Optional Note, Channel Diversion:		
dra	onstruction must be phased so the newly aligned channel is fully operational before the existing ainage channel is filled. Flood water conveyance must be maintained at all times during instruction.	

## Additional Notes (required when using HDPE Pipe within R/W or a drainage easement):

ENG RVV	v	
1. 🗌 📗	All HDPE storm drainpipe shall be manufactured, designed and installed in accordance with American Association of State Highway and Transportation Officials (AASHTO) M252, AASHTO M294, MAG and City Supplements to MAG and these special provisions.	
2.	All HDPE storm drainpipe shall be Type `S' corrugated, with watertight joints. HDPE pipe shall not be allowed within a minimum of 24 linear feet of an open outfall. The outfall section of storm drainpipe shall be concrete or concrete-lined as shown on the plans.	
3. 🗌 🗎	At a minimum, all HDPE storm drain pipe joints shall meet the ASTM D-3212 watertight requirement of 10.8 psi (25 column feet of water head).	
4.	The contractor shall provide a copy of an accepted independent 3rd party lab certification that all the pipe and joints to be used on the project meet the ASTM D-3212 watertight standard.	
5. 🗌 🗎	All HDPE pipe connections to manholes shall meet ASTM C-923 requirements.	
	The following notes are required on Grading & Drainage plans when special preservation or hillside issues are involved:	
1. 🗌 🗎	Before grading in areas containing native desert vegetation, the Contractor must obtain a permit from Arizona Department of Agriculture. For information, phone (602) 542-3578.	
2. 🗌 🖺	If property is adjacent to the Phoenix Mountain Preserve, no disturbance of preserve property for access, grading, or other construction purposes will be allowed. The contractor is required to delineate the Mountain Preserve boundary with a temporary fence or other acceptable methods.	
3.	If site has special preservation or hillside issues, the grading plan must show all landscape preservation easements, construction fencing locations, and appropriate areas labeled. Prior to any clearing, grubbing, or grading operations, construction fencing shall be shown on approved plans, permitted and inspected and salvage operations permitted, inspected, and completed.	
Plan Sheet Requirements ENG RVW		
1. 🗆 🗀	Scale selected for each sheet. One (1) inch equals 40 feet (maximum) for all projects.	
2.	Existing contours or spot elevations, drainage arrows and grade breaks to indicate drainage patterns. Also indicate all 100-year flows from contributing offsite drainage areas.	
3.	Show existing and proposed top of curb, gutter, and sidewalk elevations (both sides) and pavement crown elevations along project frontage at extension of lot lines or every 100' (whichever is less). Per City Storm Water Policies and Standards Manual Section 3.5.3.2 – finished floor elevations (FFE) must be six (6) inches above High Curb and 14 inches above low curb.	
4. 🗌 📗	Show all building pad and FFE elevations for all proposed buildings.	
5. 🗌 🗎	Show and label low curb and high curb elevations.	
6. 🗌 🗎	Provide spot elevations every 100' on adjacent properties sufficient to depict existing conditions affecting drainage of property to be filled. Usually 50 feet beyond property line will be sufficient.	
7. 🗌 🔲	Provide cross-sections through all property lines, buildings and retention basins when possible.	

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### **ENG RVW** 8. All existing utilities and drainage facilities, including private or Salt River Valley Water Users Associations (SRVWUA) irrigation, within and adjacent to the property boundaries shall be shown. Any work on Salt River Project (SRP) irrigation system requires an SRP permit and approved plans. All utilities shall be dimensioned from street monument lines. 9. 🗌 🗎 Show details at property lines, fences, berms, etc. Also show improvements and finish floor elevations on adjacent property to the proposed development. 10. Show all existing and proposed easements, dedications, R/W, streets, and alleys with dimensions and offsets. Streets shall be identified by name. Streets, alleys, and easements shall be dimensioned at least once and at all breaks. Monument line of streets shall be shown. 11. 🔲 🔲 All abutting lots shall be identified by lot #, tract, and subdivision or shown un-subdivided. 12. 🔲 🔲 Dimension all property boundaries, both perimeter and interior lines. 13. 🔲 🔲 All proposed and existing structures, paving and other topographic features affected by construction shall be shown. 14. The proposed grading should be designed with slopes and topographic features which match the natural grade and boundary area to minimize erosion and sediment transport on to city streets or neighboring properties. 15. Phased developments shall indicate interim slopes and grades to match proposed work to existing conditions. 16. Grading Plans showing existing natural washes shall also show existing conditions including line and grade of the wash flow line at 50-foot intervals. Show distances between banks and elevations at 50-foot intervals. Show cross sections and high-water elevations every 100 feet on washes impacting site. 17. Show the extreme storm outfall and label it with an elevation. 18. Show side slopes, bottom elevation, high water elevation, outfall elevation, location and direction of basin overflow, volume provided, and volume required for all retention/detention basins. 19. 🔲 Note location of all storm water post-construction controls using State Plane Arizona Central Zone Coordinates, North American Datum (NAD) of 1983, High Accuracy Reference Network (HARN) / High Precision Geodetic Network (HPGN). 20. Show all proposed retaining walls. Include the length, height, top of retaining wall elevation, and top of footing elevation for each section of retaining wall. The design and structural calculations for all retaining walls shall be reviewed, approved, and permitted based on the G&D plans; and inspected by the Building Safety Branch of the Planning & Development Department. Refer to Section 703 of the Zoning Ordinance and Section 32-32 of the Subdivision Ordinance for specific wall height requirements. Use permit for over-height walls must be obtained prior to approval of the G&D Plan. NOTE: Retaining Walls require a separate permit. 21. Show parking spaces for disabled. Provide grade arrows to verify that the slope in the parking lot accommodates disabled access requirements. Do not exceed 2% in any direction in those areas. Show on-site ramps to the building with slope arrows showing the area near disabled parking or on ramps to building.

#### Other Requirements When Applicable:

ENG RVW	
1. 🗌 🗎	Proper consideration must be given to protection of underground parking, basements, and loading docks.
2. 🗌 🖺	A Pavement Cut Surcharge will be assessed on this project for trenching in new asphalt pavement. This fee will be assessed in addition to the regular permit fees and is over and above any special backfill, compaction, and pavement replacement stipulations that may be imposed as a condition of permitting. Surcharge affects streets newly paved and newly overlaid within the past 30 months.
3. 🗌 🗎	Show the limits of any designated floodplain, including the "Selected Floodway" as established on the official Federal Insurance Rate Maps (FIRM). Include all applicable 100-year water surface elevation lines which traverse the project site.
4. 🗌 🔲	Hauls greater than 10,000 cubic yards require a permit and approved haul route prior to issuance of G&D permit. Haul route to be approved by Street Transportation Department. Permit to be created by Planning & Development Department Civil reviewer.
	New Dry Well Installation Checklist
ENG RVW	
1. 🗌 🗎	Drywells are not required to be shown on the plan set for retention basins with depths of less than one (1) foot (basin outfall elevation – bottom elevation).
2. 🗌 🗎	Drywell is to be set at least 100 feet from any surrounding water production well, underground storage tank, or fuel loading area.
3. 🗌 🗎	Drywell is not to be constructed in any area where hazardous or toxic materials are stored or handled.
4.	Drywell is not to be located in any area where an accidental spill of hazardous or toxic liquid would drain into the dry well.
5. 🗌 🔲	Drywell is not to be located at a loading dock where hazardous substances are handled.
6. 🗌 🔲	Drywell is not to be located within any groundwater saturated zones.
7. 🗌 🔲	Drywell shall dispose of storm water run-off only.
8. 🗌 🗎	The following notes are required on G&D plans when a drywell is to be installed:
	A. The owner/developer shall be responsible for registering the drywells shown on the G&D plan with the Arizona Department of Environmental Quality (ADEQ). For information about specific requirements, contact the Water Permits Unit at (602) 771-1440.
	B. Drywells must be drilled a minimum of 10 feet into permeable porous strata or percolation tests will be required. The G&D inspector must be present before backfill or well pipes are placed within any dry wells.

C. The owner/developer is responsible for installing drywell(s) should the retention basins fail to

drain within 36 hours.

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ENG RVW	
9. 🗌 🗎	Dry well detail and specifications need to be shown on G&D plans.
10. 🗌 🔲	Grate elevation for the dry well needs to be shown on G&D plan at minimum of 0.3 feet above bottom of retention basin (allows for silting). For bleed-off to City storm drain system the grate needs to be 0.75 feet above bottom of basin.
	AT-RISK GRADING AND DRAINAGE PLANS
Risk G&D prior to the convenience permit may approved t	ew of the G&D plan for the project is required to be completed prior to any consideration of an At Drainage plan being accepted for review (all major comments on the G&D plan must be addressed At-Risk Grading and Drainage plan being accepted). An At-Risk G&D Plan may be approved as a ce to the developer. The city is not obligated to approve an At-Risk Rough Grading Plan. The be revoked if timely progress is not made toward final G&D plan approval. At-Risk G&D plans are allow rough grading only. Trenching, digging dry wells or fine grading is not allowed as part of a G&D plan approval.
	ssional engineer of record shall work earnestly toward completing the full G&D plan approval while G&D plans are in use, or the At-Risk G&D permit may be revoked.
	D permit fees are the same fees as the full G&D permit fees in the City of Phoenix Fee Schedule apter 9, Appendix A.2).
PLANS FOR REVISION ENG RVW	
	• All original plan approvals, signatures, and seals are to remain on the revised plans.
- I	All plans revised after the original approval shall be resubmitted for review and approval. The nature of the revisions must be called out on the cover sheet and on the sheet(s) which have been revised. The revision number itself shall consist of a numeral within a triangle $\Delta$ next to each revision. Changes on each plan sheet shall be specifically outlined with "clouding".
3. 🗌 🗎 /	All revised sheets, including the cover sheet are to be re-sealed, signed and dated.
ENG RVW	
!	All plan extensions must have prior approval by completing the Plan Review Extension Application. The Plan Review Extension Application can be found at the following site:  Plan Review and Permit Extensions  Provide a copy of the approved application with the plan submittal.

2.  $\square$  Plan approvals for extension are valid for a period of 180 days from the date of plan approval.