TOWN OF PARADISE VALLEY

BUILDING PAD HEIGHT



AGENDA

Agenda

- 1. Town Code Fill Under Pad Overview
- 2. Staff Interpretation
- 3. Municipal Cut & Fill Regulations
- 4. Visual Impacts
- 5. Potential Code Amendments & Examples
- 6. Landscaping Fill



TOWN CODE OVERVIEW

One of the most frequently asked questions associated with new residential construction is in regards to how the building pad heights are determined and what affects it has in the overall allowable height of a structure.

Town Code Section 5: Building & Construction

Town Code Section 5-10-5: Grading & Dust Control Regulations

Town Code Section 5-10-5, B: Grading Permits Required For Land Disturbance

- "Filling" means dumping or depositing earthen material resulting in raising of the grade at that location.
- "Earthen Material" means any rock, natural soil or any combination thereof.



TOWN CODE OVERVIEW

Town Code Section 5-10-5, B,2, a: Grading Plans prepared by a Civil Engineer

• The grading plan shall contain the preparing engineers certification of the 100 year water surface elevation and finished floor elevation.

 The building pad shall not exceed two (2) feet in height except where required to protect the building against flooding, in which case the pad shall be one (1) foot above the water surface elevation of the 100 year event

Concrete Slab (Finished Floor)



Building Pad



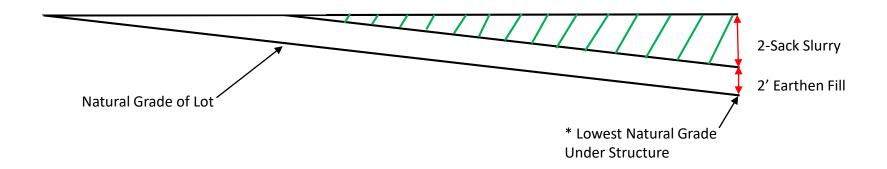
STAFF INTERPRETATION

The building pad shall not exceed two (2) feet in height except where required to protect the building against flooding...

- Engineering staff interprets this section of the Town Code to mean that no more than 2 feet of
 earthen material may be placed following the natural contour of a property to raise up the
 building pad unless it is needed to protect the home from flooding.
- Developers and/or property owners desiring a single level home may achieve a level building pad by:
 - a. Addition of non-earthen material such as thickening the slab with 2-sack slurry
 - b. Use stem walls and framed floor with crawl space
 - c. Thickened concrete slab
- Building height measurement is taken from same location (lowest natural grade)



EXAMPLE (BUILDING PAD)

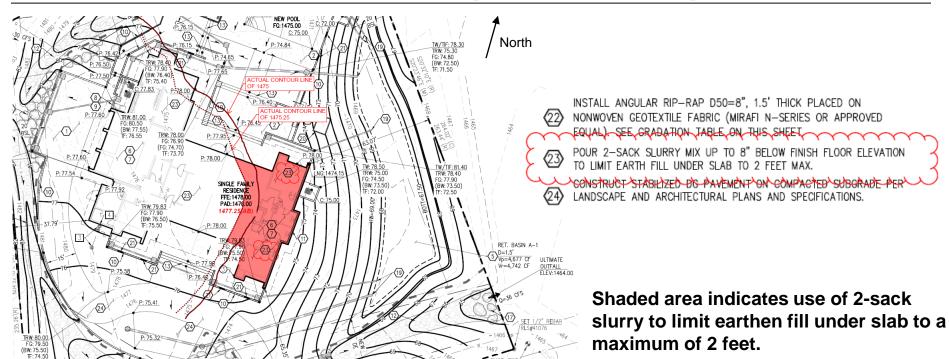


* Building height is measured from Lowest Natural Grade Under Structure



Not To Scale

EXAMPLE (1 ACRE LOT)





MUNICIPAL FILL & HEIGHT REQUIREMENTS

Fill Limits

No other municipalities were found to have restrictions as to how much fill may be added to raise the pad elevation above natural grade.

Building Height Limits (excludes any HOA restrictions)

Paradise Valley 24' from lowest natural grade and open space criteria

Prescott
 24' from rolling plane from natural grade (% of roof area may be raised up to 28')

Cave Creek 25' adjacent natural grade

Phoenix 30' from adjacent natural grade

• Glendale 30' from rolling plane from natural grade

Scottsdale 30' from rolling plane from natural grade



VISUAL IMPACT



VISUAL IMPACTS



VISUAL IMPACTS



VISUAL IMPACTS



FILL & HEIGHT REQUIREMENTS

Potential Town Code amendments to require non-hillside residential structures to follow the contour of the land.

- Remove maximum 2' fill limitation
- Add maximum finished floor height to 3' above natural grade
- Continue to measure height from lowest natural grade under structure
- Continue to require open space criteria
- Require building pad height certification and possibly rough grading inspection as part of pre-slab inspection



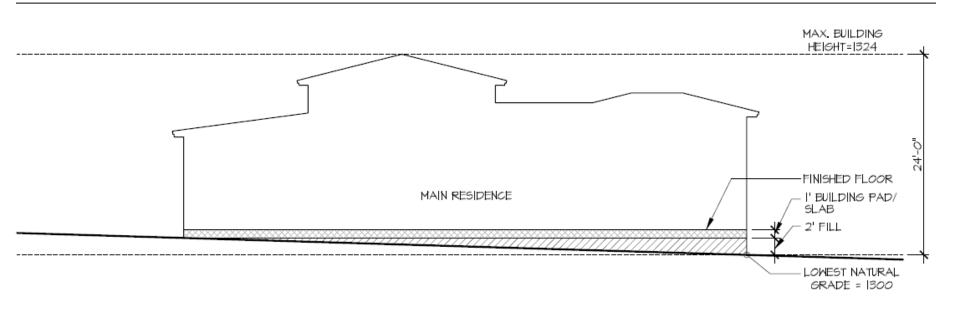


DIAGRAM NO.I 3% SLOPE W/ 2' FILL & I' BUILDING PAD/SLAB (FLAT FINISHED FLOOR)



Current Code (typical)

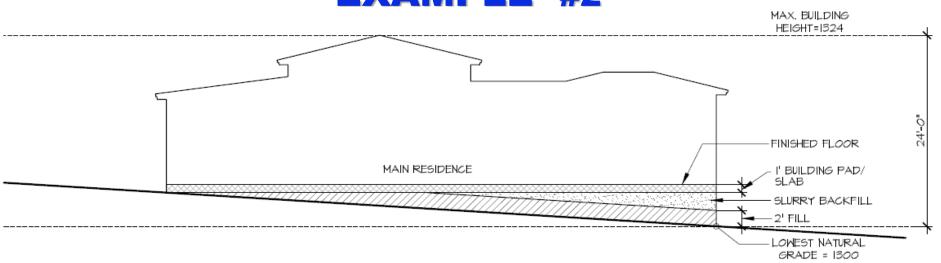


DIAGRAM NO.2 4%-5% SLOPE W/ 2' FILL , SLURRY BACKFILL & SLAB (FLAT FINISHED FLOOR)

Current Code Allows (caused concerns)

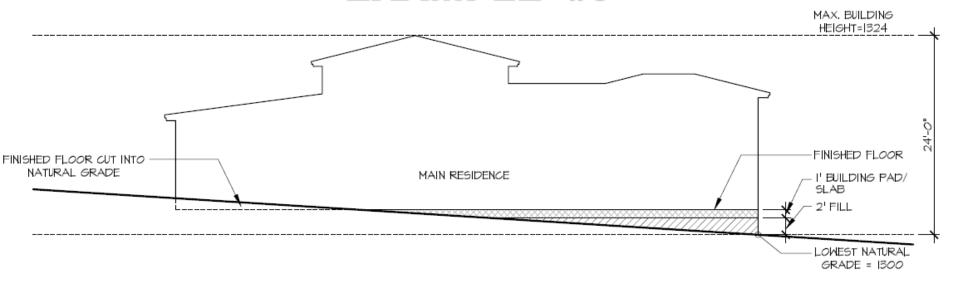


DIAGRAM NO.3

4%-5% SLOPE W/ 2' FILL & I' BUILDING PAD/SLAB (FLAT FINISHED FLOOR,

WILL REQUIRE NOTCHED OUT)

Current Code Allows

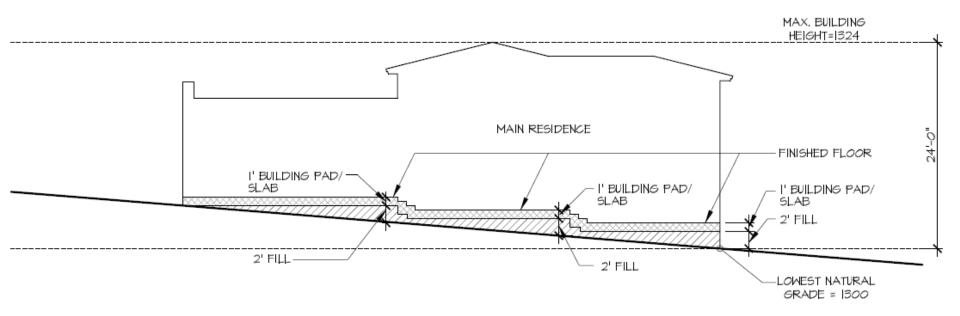


DIAGRAM NO.4
7%-8% SLOPE W/ 2' FILL & I' BUILDING PAD/SLAB (STEPPED FINISHED FLOOR)



Possible Code Amendment (3' max finished floor from natural grade)

FILL & HEIGHT REQUIREMENTS

Concerns with Town Code amendments to limit finished floor heights:

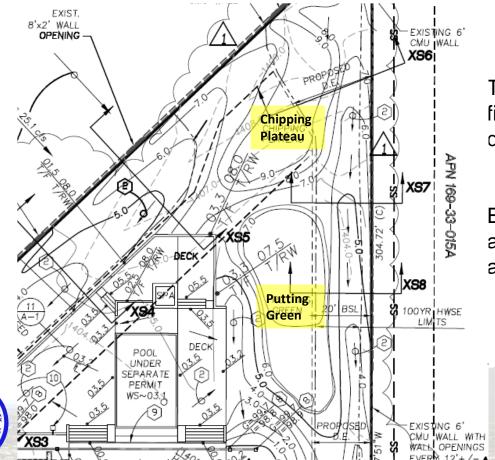
- Added costs for drainage systems around "notched" or "stepped" finished floors
- Single level floor plans are more desirable
- Development community input would be recommended before any potential amendments to the Town Code

Additional items that may be considered:

- Limits of fill material for patios, pools, landscaped areas, etc.
- Timing of building height certification (currently required prior to certificate of occupancy)
- Require building pad elevation certification prior to pre-slab inspection
- · Require finished floor elevation certification prior to framing inspection



LANDSCAPING FILL



Town Code does not limit the amount of fill for landscaped areas so long as drainage is not affected.

Example grading & drainage plan shows approx. 3' of fill for chipping plateau and approx. 5' of fill for the putting green.

QUESTIONS?

