



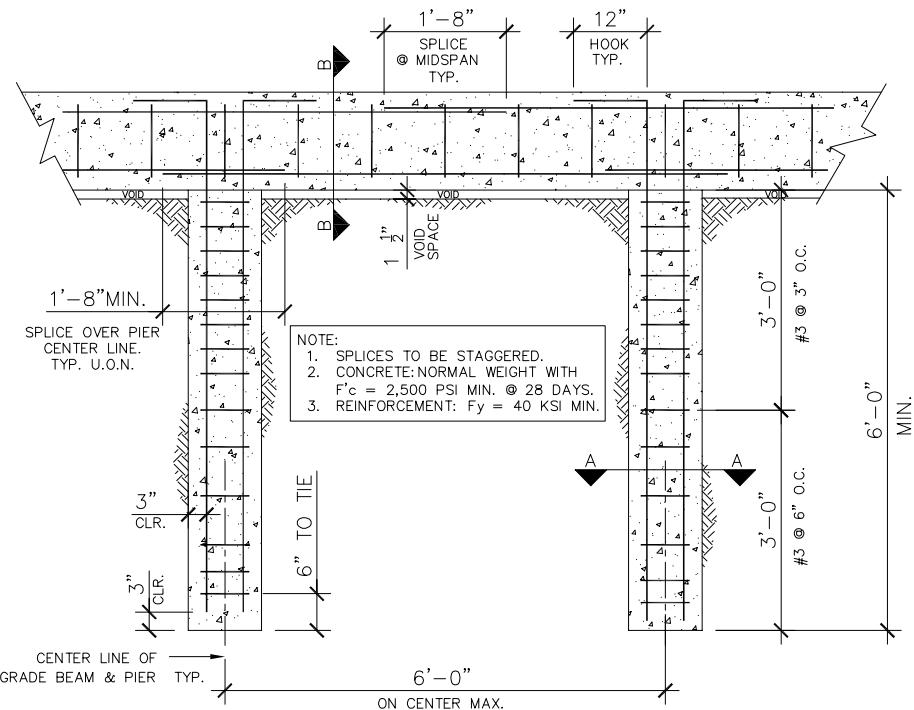
**City of Milpitas**  
Office of Building Safety  
**DESIGN GUIDELINE**  
**FOR**  
**RESIDENTIAL**  
**CONCRETE FOUNDATION**



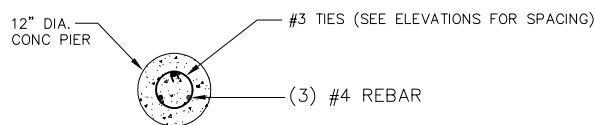
455 E. Calaveras Blvd.  
Milpitas, CA 95035  
408-586-3240  
[www.milpitas.gov](http://www.milpitas.gov)

MARCH 2023

BASED ON  
2022 CALIFORNIA CODES

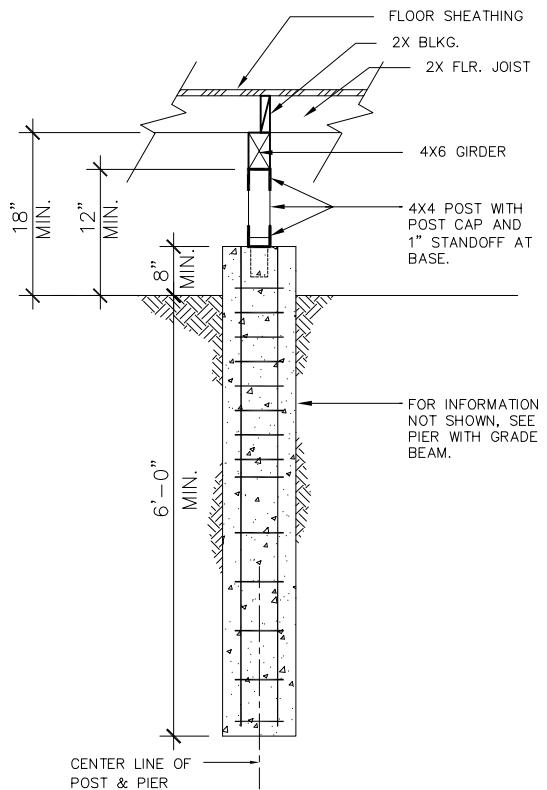


DETAIL OF PIER & GRADE BEAM FOUNDATION

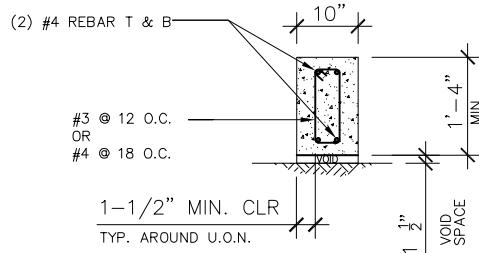


SECTION A-A  
CONCRETE PIER

REFER TO "DESIGN GUIDELINES FOR FOOTING AND POOL ON OR ADJACENT TO SLOPES" AT FOR DESIGN OF FOUNDATIONS NEAR SLOPES.



DETAIL OF INTERIOR FLOOR SUPPORT



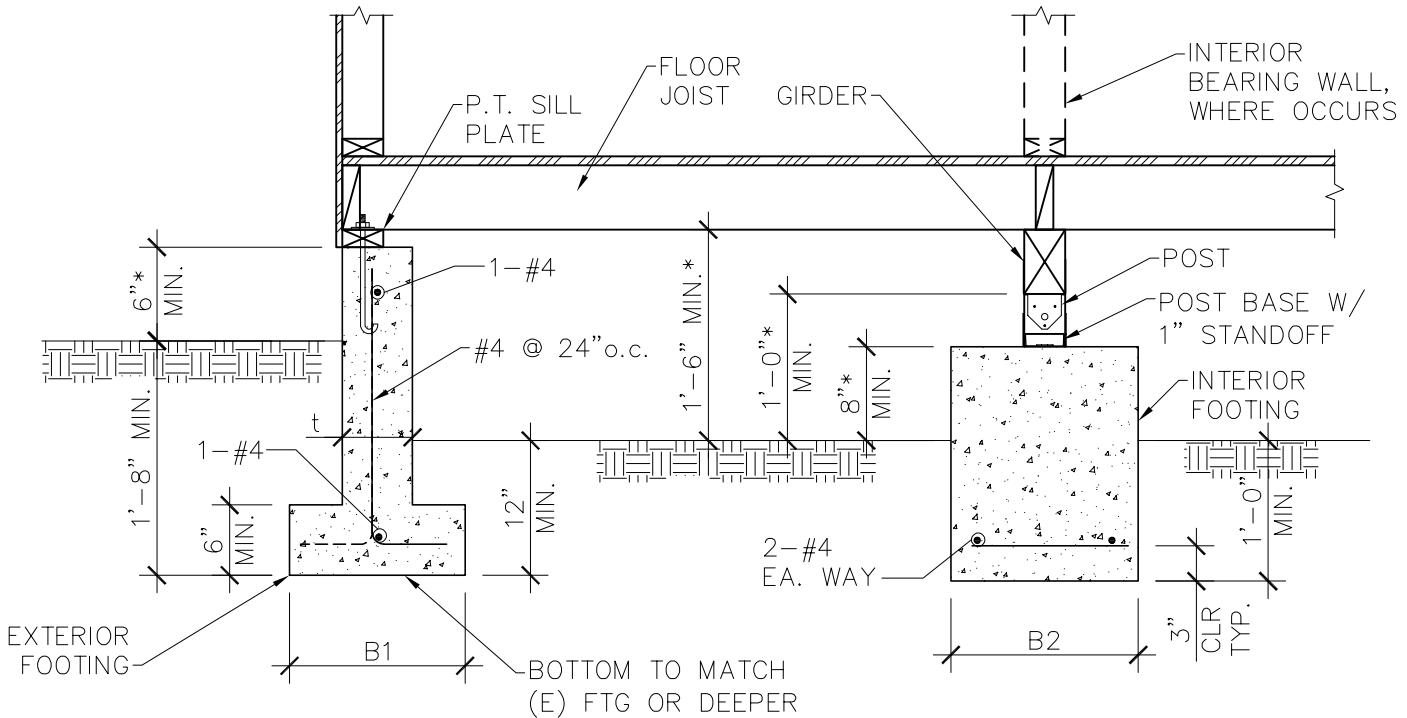
SECTION B-B  
GRADE BEAM

VER	DATE	BY
1	MAR 2023	IH

**City of Milpitas**  
Office of Building Safety

MINIMUM PIER AND GRADE BEAM FOUNDATION DESIGN

**SHEET  
1**  
OF 4 SHEETS



\* WOOD SHEATHING SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED IF MIN. DISTANCE IS NOT MAINTAINED

NO. OF STORIES SUPPORTED BY FTG.	STEM WALL THK. (t)	EXTERIOR FTG. WIDTH (B1)	INTERIOR FTG. WIDTH (B2)	INTERIOR FTG. MAX. SPACING
1 FLOOR ONLY	6"	12"	16" SQ.	6'-0"
1 FLOOR + 1 ROOF	6"	12"	24" SQ.	6'-0"
2 FLOORS + 1 ROOF	8"	15"	30" SQ.	6'-0"

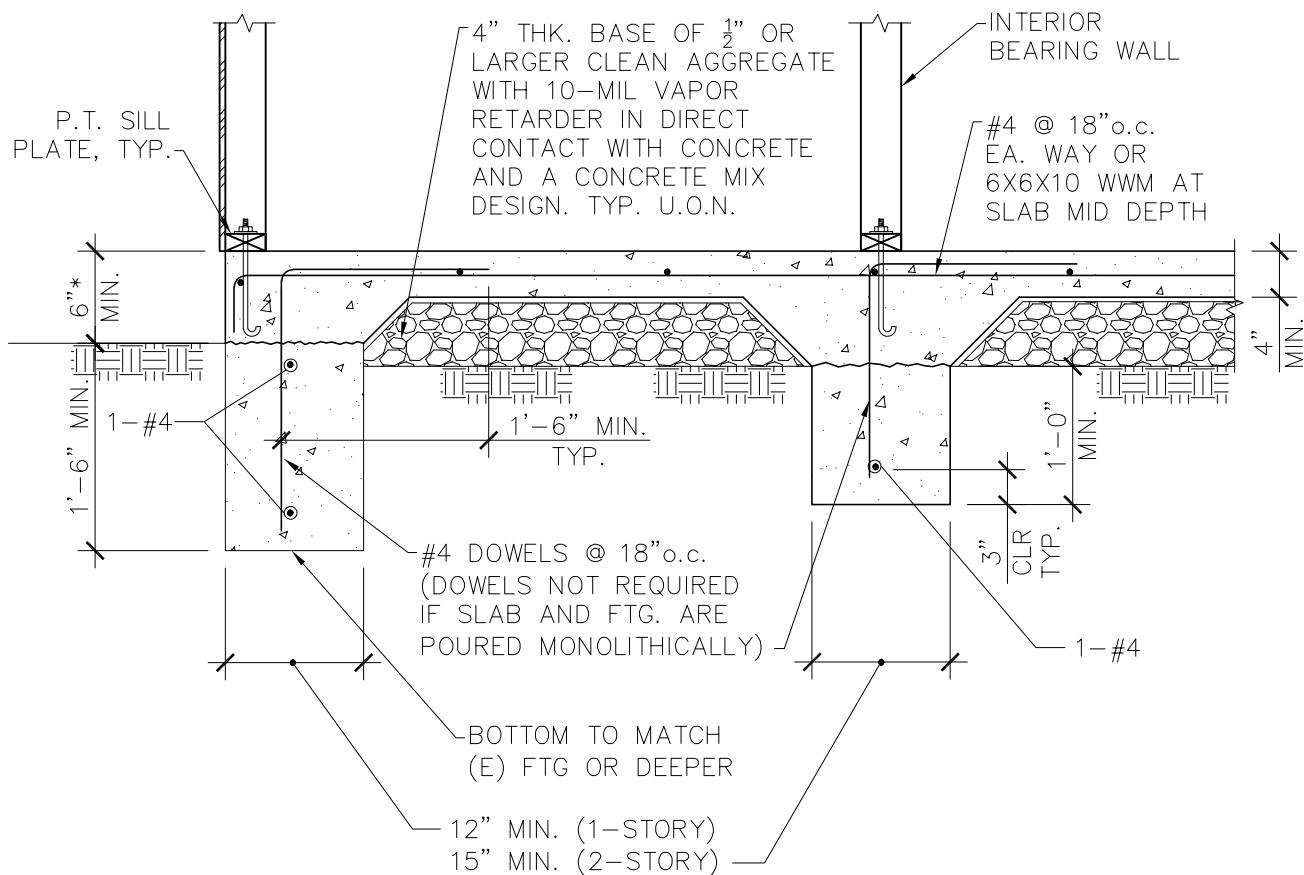
NOTE: THIS TABLE IS BASED ON MAX. 8 FT FLOOR JOIST SPAN AND MAX. 20 FT ROOF RAFTER SPAN.

REFER TO "DESIGN GUIDELINES FOR FOOTING AND POOL ON OR ADJACENT TO SLOPES." AT FOR DESIGN OF FOUNDATIONS NEAR SLOPES.

VER	DATE	BY
1	MAR 2023	IH

**City of Milpitas**  
Office of Building Safety  
**MINIMUM FOUNDATION DESIGN**  
**WITH RAISED WOOD FLOOR**

**SHEET 2**  
OF 4 SHEETS



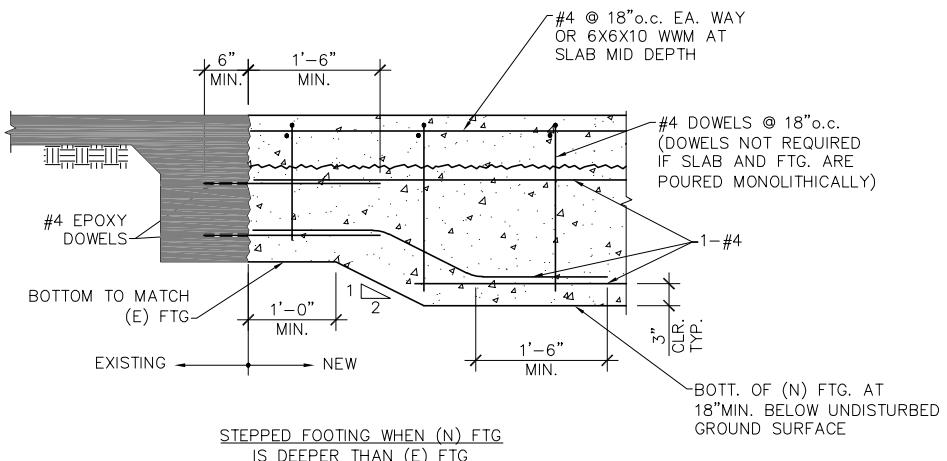
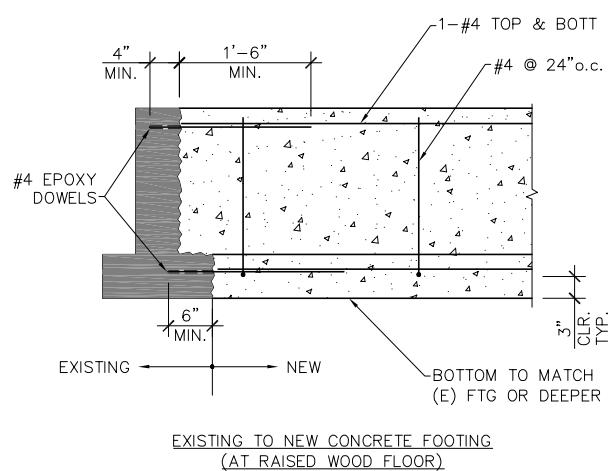
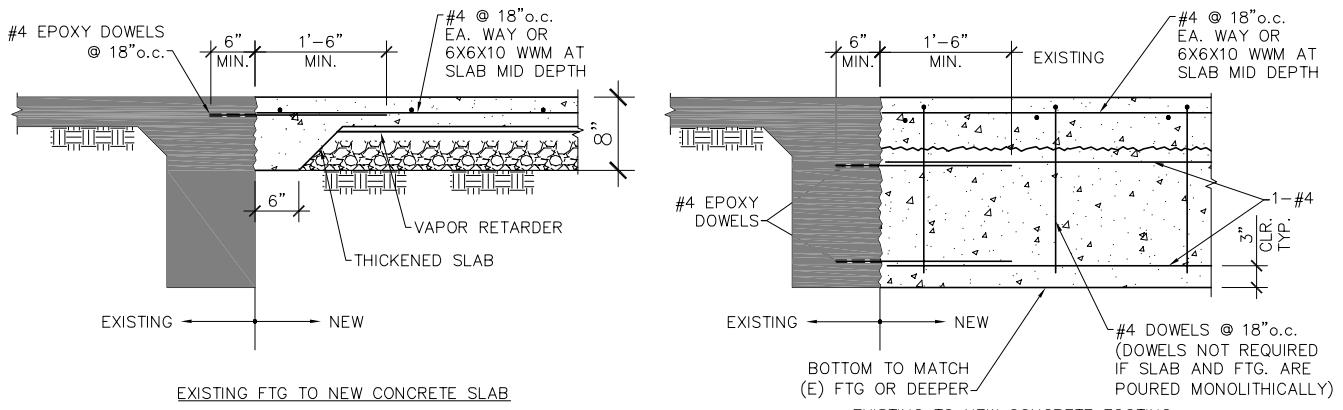
\* WOOD SHEATHING SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED IF MIN. DISTANCE IS NOT MAINTAINED

REFER TO "DESIGN GUIDELINES FOR FOOTING AND POOL ON OR ADJACENT TO SLOPES" AT FOR DESIGN OF FOUNDATIONS NEAR SLOPES.

VER	DATE	BY
1	MAR 2023	IH

**City of Milpitas**  
Office of Building Safety  
**MINIMUM FOUNDATION DESIGN  
WITH SLAB ON GRADE**

**SHEET  
3  
OF 4 SHEETS**



REFER TO "DESIGN GUIDELINES FOR FOOTING AND POOL ON OR ADJACENT TO SLOPES"  
AT FOR DESIGN OF FOUNDATIONS NEAR SLOPES.

VER	DATE	BY
1	MAR 2023	IH

# City of Milpitas

## Office of Building Safety

### EXISTING TO NEW CONCRETE FOOTING

SHEET  
**4**  
OF 4 SHEETS