

Building Standards

100 Regina St. S.
2nd Floor
Waterloo, Ontario
N2J 4A8

Ph: 519-747-8712
Fx: 519-747-8792
www.waterloo.ca

REVISED: 2014

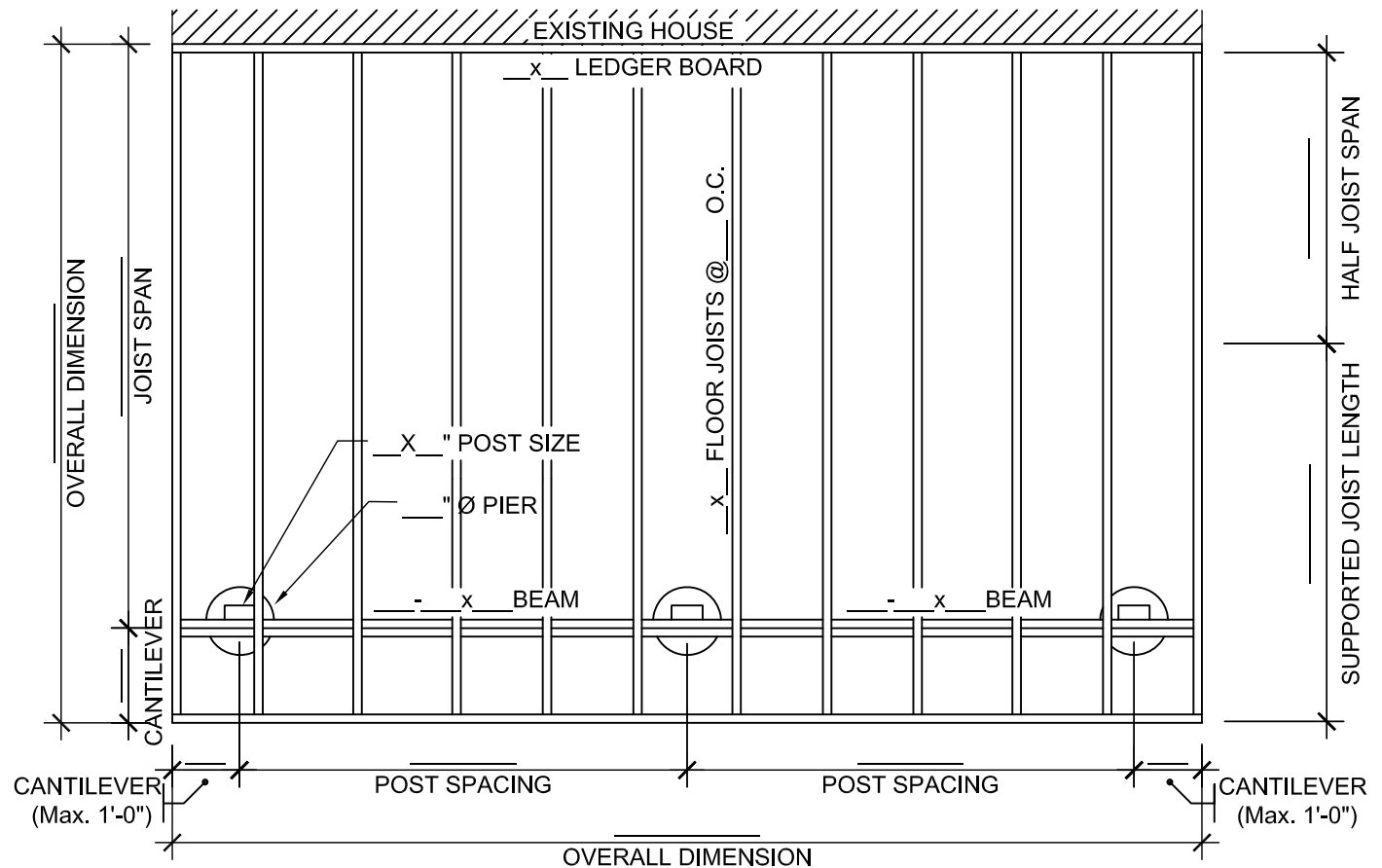
Fill - In
Deck Layout

Beam Size Chart

Floor Joist
Chart

DRAWING NO.:

1



DECK LAYOUT

MATERIAL FOR STRUCTURAL ELEMENTS (EX. PRESSURE TREATED WOOD): _____

MATERIAL FOR DECK BOARDS (EX. TREX LUMBER): _____

Note: All wood decking is to be 5/4" x 6" (minimum) or approved equal

Thickness x Width Material

Maximum 2-Ply Beam Length			
Supported Joist Length	2-2x8	2-2x10	2-2x12
4'-0"	11'-7"	14'-10"	17'-4"
6'-0"	9'-10"	12'-1"	14'-0"
8'-0"	8'-7"	10'-6"	12'-3"
10'-0"	7'-8"	9'-4"	10'-8"
Maximum 3-Ply Beam Length			
Supported Joist Length	3-2x8	3-2x10	3-2x12
8'-0"	10'-8"	13'-0"	15'-1"
10'-0"	9'-6"	11'-8"	13'-6"

Maximum Floor Joist Length		
Joist Size	Max. Joist Span	Max. Cantilever
2x8 @ 12" O.C.	12'-6"	16"
2x8 @ 16" O.C.	11'-9"	16"
2x8 @ 24" O.C.	11'-0"	16"
2x10 @ 12" O.C.	14'-6"	24"
2x10 @ 16" O.C.	13'-8"	24"
2x10 @ 24" O.C.	12'-10"	24"
2x12 @ 12" O.C.	16'-5"	24"
2x12 @ 16" O.C.	15'-6"	24"
2x12 @ 24" O.C.	14'-6"	24"

MIN. 1/2" Ø LAG
BOLTS SPACED AT
MAX. 16" O.C. LAG
BOLTS MUST BE
INTO WOOD
FRAMING OR
FOUNDATION WALL

Building Standards

100 Regina St. S.
2nd Floor
Waterloo, Ontario
N2J 4A8

Ph: 519-747-8712
Fx: 519-747-8792
www.waterloo.ca

REVISED: 2014

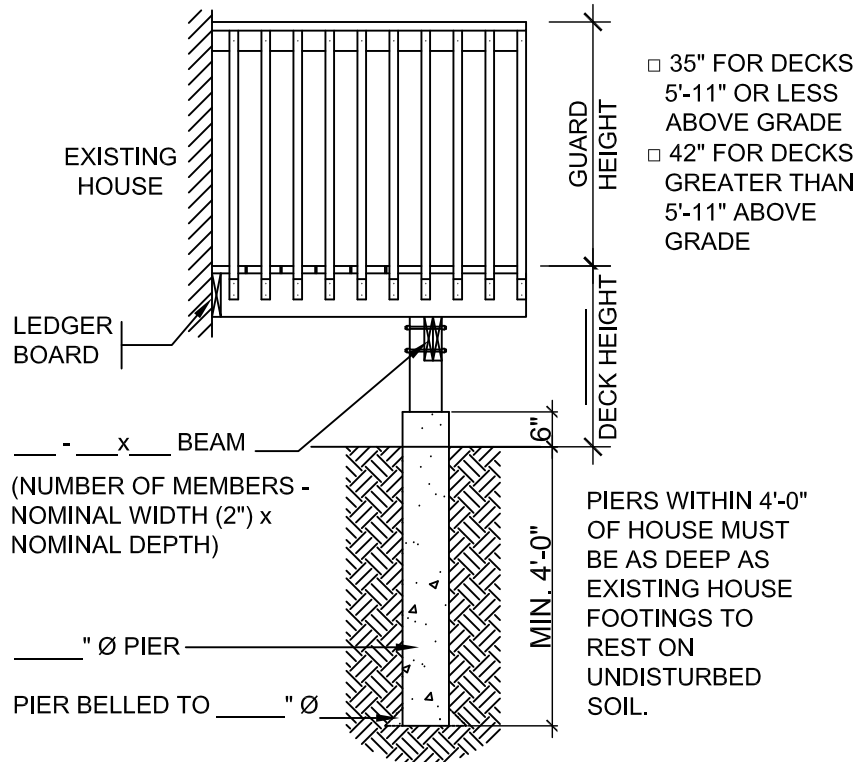
Fill - In
Deck Elevation

Stair Details

Pier Size Chart

DRAWING NO.:

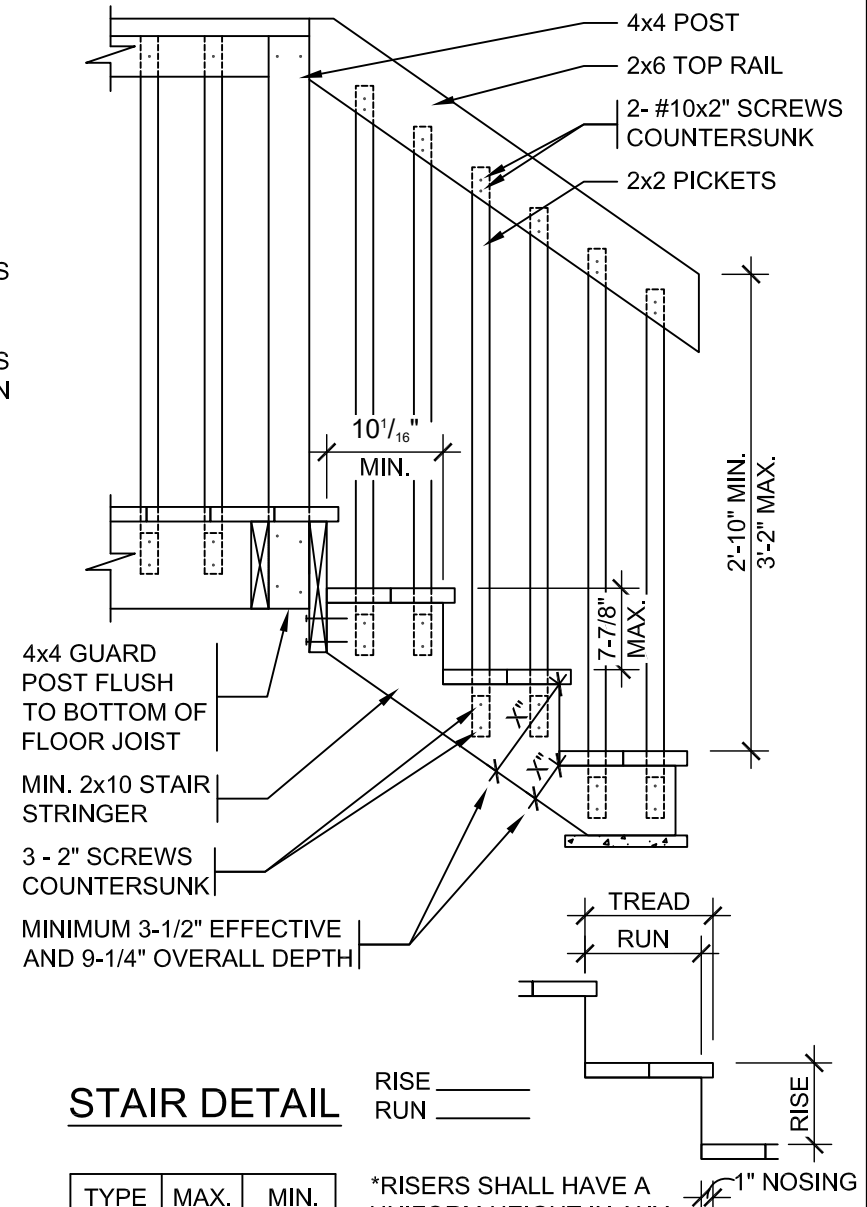
3



DECK ELEVATION

JOIST SPAN	PIER SIZE			
	PIER SPACING			
	4'	6'	8'	10'
6'	8"Ø	10"Ø	10"Ø	12"Ø
8'	8"Ø	10"Ø	12"Ø	14"Ø
10'	10"Ø	12"Ø	14"Ø	14"Ø
12'	10"Ø	12"Ø	14"Ø	16"Ø

PIER SIZES



STAIR DETAIL

TYPE	MAX.	MIN.
RISE	7-7/8"	4-7/8"
RUN	14"	10 1/16"
MAX 1" NOSING		

*RISERS SHALL HAVE A UNIFORM HEIGHT IN ANY ONE FLIGHT OF STAIRS.

*TREADS SHALL HAVE A UNIFORM RUN AND TREAD DEPTH IN ANY ONE FLIGHT OF STAIRS.

STAIR DIMENSIONS