

BUILT-UP COLUMNS ATTACHMENT SPECIFICATIONS

CONCISE
engineering

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ALL NAILS TO BE
10d-3" COMMON WIRE
NAILS OR
10d-3.25" BOX NAILS

- NEAR FACE
- × OPPOSITE FACE

- "STANDARD" LOAD DURATION (DEAD LOAD + SNOW OR OCCUPANCY)
- SERVICE CONDITION "DRY"
- UN-BRACED COLUMNS ARE EFFECTIVELY PINNED AT EACH END (SUPPORTED BY WALL PLATES)
- TO BE CONSIDERED BRACED, THE WALL MUST BE AT LEAST 4'-0" LONG AND PROVIDE LATERAL SUPPORT, EACH PLY OF BUILT-UP COLUMN MUST BE ATTACHED TO SHEATHING AT LEAST ON ONE SIDE
- COLUMNS REQUIRE TO BE BRACED BY WALL SHEATHING IN THE WEAK (NARROW) AXIS. ATTACHMENT OF SHEATHING TO COLUMN AS PER ALBERTA BUILDING CODE REQUIREMENTS.

THIS DESIGN APPLIES ONLY TO NOTED PROJECT. IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE ALL CONSTRUCTION IS CARRIED OUT ACCORDINGLY TO THE CRITERIA STATED IN THIS DOCUMENT. IF ANY DESIGN OR PROCEDURAL CHANGES ARE MADE DURING OR AFTER CONSTRUCTION THEN WORK SHOULD BE STOPPED AND CONCISE ENGINEERING SHOULD BE NOTIFIED.

REVISIONS

REV. #	DATE	DESIGNER

FORM 12 (REVISED 06/10/13)
MAY 2016



EXPIRY DECEMBER 31, 2025

DRAWN BY: T. ZORALEK

REVIEWED BY: K. SULAMAEGI

STANDARD BUILT-UP COLUMN
SPECIFICATIONS & LOAD CHART

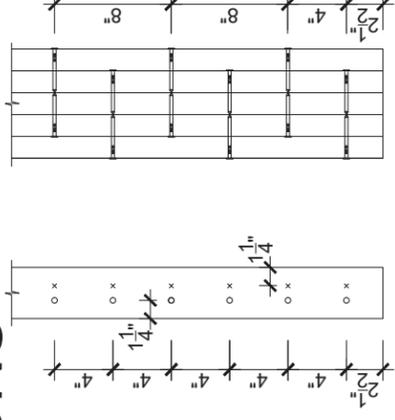
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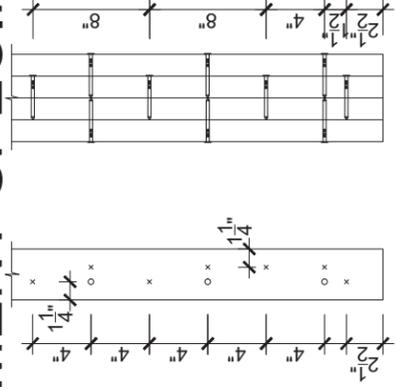
CUSTOMER: STAR BUILDING MATERIALS

NTS

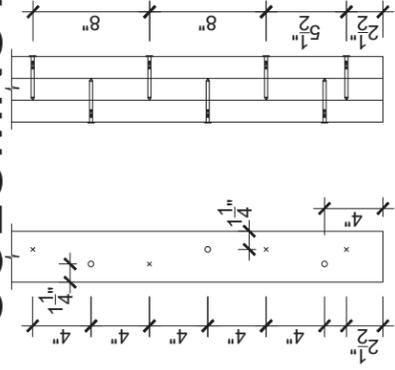
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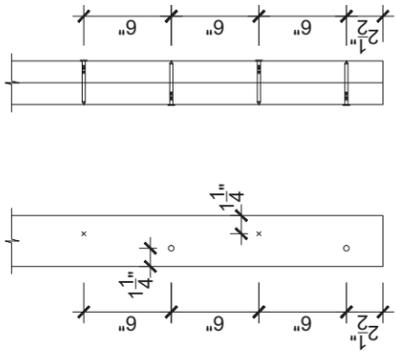
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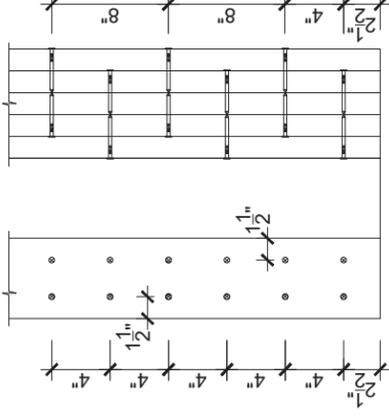
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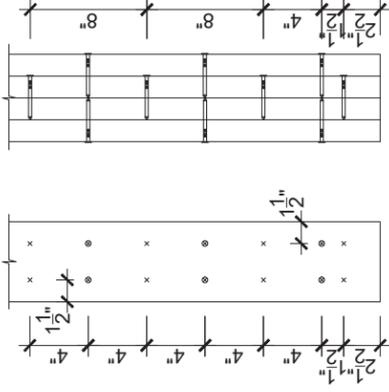
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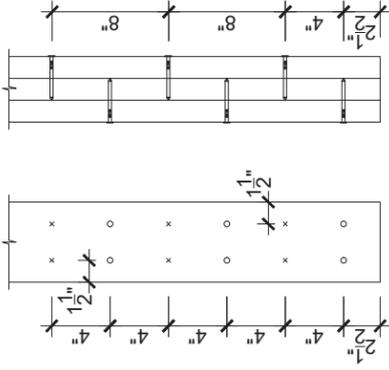
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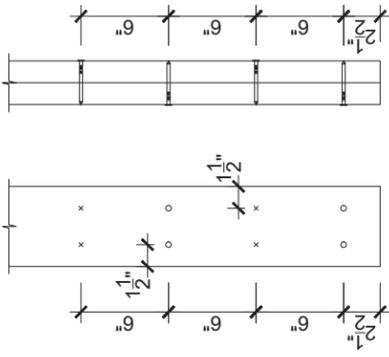
5-2x6 SPF#2



4-2x6 SPF#2



3-2x6 SPF#2



2-2x6 SPF#2

UN-FACTORED COMPRESSIVE RESISTANCE

BUILT-UP POST SIZE	UN-BRACED - BUILT-UP COLUMN					BRACED - BUILT-UP COLUMN				
	8'-1"	9'-1"	10'-1"	12'-0"	8'-1"	9'-1"	10'-1"	12'-0"		
2x4 SPF#2	2-2x4 SPF#2	1,800 lbs	1,430 lbs	900 lbs	5,380 lbs	4,270 lbs	3,480 lbs	2,250 lbs	8,895 lbs	
	3-2x4 SPF#2	5,620 lbs	4,845 lbs	3,320 lbs	8,070 lbs	6,410 lbs	5,225 lbs	3,385 lbs	13,340 lbs	
	4-2x4 SPF#2	10,340 lbs	8,280 lbs	6,785 lbs	10,760 lbs	8,550 lbs	6,960 lbs	4,515 lbs	17,790 lbs	
	5-2x4 SPF#2	12,500 lbs	10,400 lbs	8,500 lbs	13,100 lbs	10,400 lbs	8,400 lbs	5,450 lbs	21,100 lbs	
	2-2x6 SPF#2	3,660 lbs	2,830 lbs	2,260 lbs	12,400 lbs	12,250 lbs	11,480 lbs	8,895 lbs	26,300 lbs	
2x6 SPF#2	3-2x6 SPF#2	10,340 lbs	8,830 lbs	7,610 lbs	17,700 lbs	17,450 lbs	17,200 lbs	13,340 lbs	26,650 lbs	
	4-2x6 SPF#2	17,220 lbs	15,690 lbs	14,320 lbs	22,800 lbs	22,450 lbs	22,160 lbs	17,790 lbs	26,650 lbs	
	5-2x6 SPF#2	23,200 lbs	21,000 lbs	19,100 lbs	27,100 lbs	26,650 lbs	26,300 lbs	21,100 lbs	26,650 lbs	