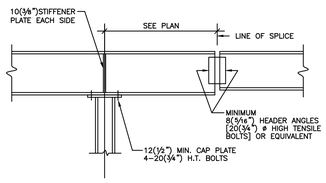


CANTILEVER BEAM SPLICE

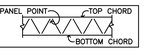
1

FOR SPRINKLER PIPE LINE LOCATION, SEE MECHANICAL DRAWINGS.

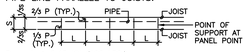
ALL SUPPORTING ROOF JOISTS SHALL BE DESIGNED TO WITHSTAND WATER FILLED PIPE LOADS 'W' AS SHOWN IN ADDITION TO THE BASIC SPECIFIED DESIGN.

100(4") ø PIPE.....ø SMALLER – IGNORE
125(5") ø PIPE.....w = 0.35 KN/m (24 P.L.F.) } PLUS 0.45 KN. (100 LBS.)
150(6") ø PIPE.....w = 0.47 KN/m (32 P.L.F.) } AT THE POINT OF HANGING
200(8") ø PIPE.....w = 0.75 KN/m (51 P.L.F.) }

ALL MECHANICAL PIPES 50(2") OR LARGER SHALL BE HUNG FROM THE TOP CHORD OF JOIST AT PANEL POINTS ONLY. DUCT WORK MAY BE HUNG FROM TOP OF JOIST AT LOCATIONS OTHER THAN PANEL POINTS.

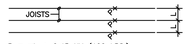


PIPE LINE PARALLEL TO JOISTS:



P = wL + 0.45 KN (100 LBS.)
w = SEE ABOVE (ø OF PIPE)...KN/m (P.L.F.)
L = SPACING OF PIPE SUPPORTS...M (FT.)

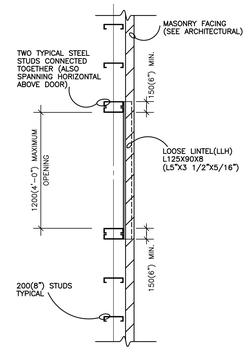
PIPE PERPENDICULAR TO JOISTS:



P = wL + 0.45 KN (100 LBS.)
w = SEE ABOVE (ø OF PIPE)...KN/m (P.L.F.)
L = SPACING OF JOISTS...M (FT.)

TYPICAL SPRINKLER LINE LOADING DETAILS

2

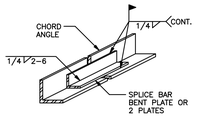


SEE ARCHITECTURAL DRAWINGS FOR LOCATION

– FOR DOUBLE DOOR LINTEL (UP TO 1930(6'–4")
USE L125X125X8(L5"X5"X5/16")
USE THREE STUDS EACH SIDE AND ABOVE

SINGLE DOOR LINTEL

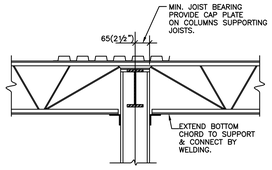
4



CHORD ANGLE	SPLICE BAR
L3"x3"x1/4"	BENT PLATE 4"x3/8"x1'–4"
L3"x3"x3/8"	2 PLATES 2"x1/2"x1'–6"
L3 1/2"x3 1/2"x1/4"	BENT PLATE 5"x3/8"x1'–4"
L3 1/2"x3 1/2"x3/8"	2 PLATES 2"x5/8"x1'–8"
L4"x4"x1/4"	BENT PLATE 6"x3/8"x1'–6"
L4"x4"x3/8"	2 PLATES 2"x3/4"x2'–0"
L4"x4"x1/2"	2 PLATES 2 1/2"x3/4"x2'–6"
L5"x5"x3/8"	2 PLATES 3"x5/8"x2'–6"
L5"x5"x1/2"	2 PLATES 3 1/2"x3/4"x3'–3"
L6"x6"x3/8"	2 PLATES 5"x3/4"x3'–6"

PERIMETER ANGLE SPLICE DETAIL

5



ALL TIE JOISTS TO BE DESIGNED FOR A SPECIFIED MOMENT OF 14.0 KNM (10 FT.KIPS.) AT COLUMN ENDS IN ADDITION TO GRAVITY LOADS. MINIMUM SIZE OF BOTTOM CHORD TO BE 2–L 45x45x5 (1 3/4"x1 3/4"x 3/16").

STEEL TIE JOIST (T.J.) SUPPORTING DECKING

3

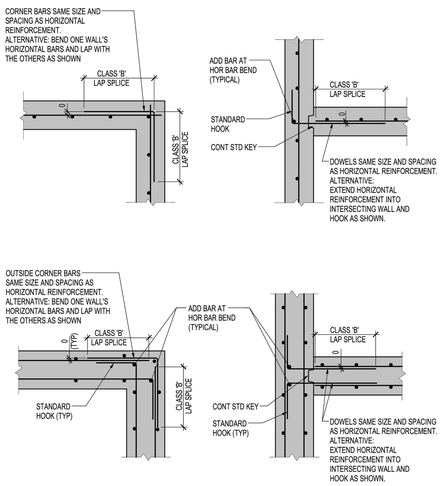
SEISMIC REINFORCEMENT FOR NON-LOAD BEARING MASONRY WALLS WITH SEISMIC HAZARD INDEX 0.35 ≤ I_E Fa Sa(0.2)<0.75 — TM-WALL-01

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL JOINT REINFORCEMENT
140 (6")	1-10@800 (2'-8")	2-3.66 @ 400 (16")
190 OR 240 (8" OR 10")	1-10@1200 (4'-0")	2-3.66 @ 400 (16")
290 (12")	1-10@1000 (3'-4")	2-3.66 @ 400 (16")

NOTES:
1. UNLESS NOTED OTHERWISE, PROVIDE THE ABOVE REINFORCEMENT FOR ALL MASONRY WALLS.
2. SEE MASONRY NOTES FOR DOWELLING, SPLICING AND OTHER REINFORCING AND GROUTING REQUIREMENTS.

AUGUST 2017

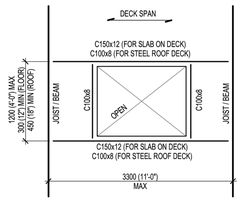
CONCRETE WALL CORNERS AND INTERSECTIONS — TC-WALL-01



NOTES:
1. IF WALLS ARE NOT PERPENDICULAR TO EACH OTHER, ALL BAR BENDS TO MATCH THE WALL INTERSECTION ANGLE.
2. FOR SHEAR WALL CORNER AND INTERSECTION DETAILS, SEE TC-WALL-41 TO TC-WALL-43

JUNE 2017

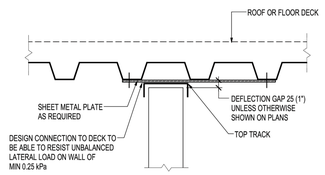
ADDITIONAL FRAMING AT DECK OPENINGS — TS-DECK-04



NOTES:
1. DECK SUPPLIER TO DESIGN AND PROVIDE REINFORCEMENT FOR STEEL ROOF DECK OPENINGS LESS THAN 450 (18")
2. SEE TS-DECK-03 FOR REINFORCING OF OPENINGS IN SLAB ON DECK LESS THAN 300 (12")

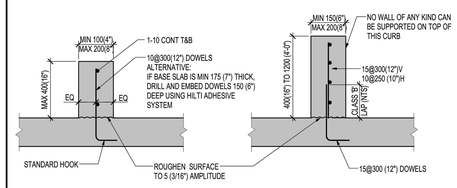
MAY 2017

STUD WALL CONNECTION TO UNDERSIDE OF STEEL DECK — TS-DECK-31



MAY 2017

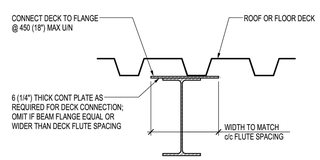
CONCRETE CURBS — TC-MISC-11



NOTE:
1. FOR CURB SIZES AND LOCATIONS, REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. UNLESS OTHERWISE NOTED, THIS DETAIL DOES NOT APPLY FOR CURBS SUPPORTING BALUSTRADE, RAILING, FALL ARREST ANCHORS OR WALL WITHOUT LATERAL SUPPORT AT TOP. REFER TO DRAWINGS FOR SPECIAL DETAILS.

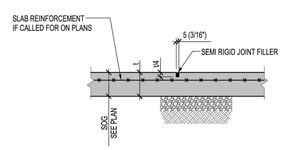
AUGUST 2017

STEEL DECK SUPPORT AT BEAM PARALLEL OR ANGLED TO DECK SPAN — TS-DECK-15



MAY 2017

SLAB ON GRADE SAWCUT CONTROL JOINT — TC-SOG-05



MAY 2017

CLIENT:
PETSMART
19601 North 27th Avenue
Phoenix, Arizona 85027 - (623) 580-6100
CLIENT REF #: 1234

PROJECT:
14K 2025 CANADIAN INSTRUCTION SET

FEBRUARY 12, 2025

CONSULTANT:

ARCHITECT:

SEAL:

CITY SEAL:

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THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR:

NUMBER	ISSUE	DATE

PROJECT NO: CA0045686.0146
DATE: 02.12.25
ORIGINAL SCALE: AS NOTED
IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1"
DESIGNED BY:
DRAWN BY:
CHECKED BY:
PAGE #: 29 OF: 53

DISCIPLINE: STRUCTURAL

TITLE: TYPICAL DETAILS

SHEET NUMBER: S1.3