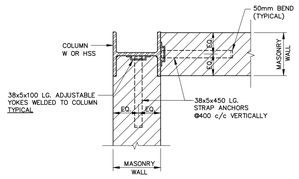
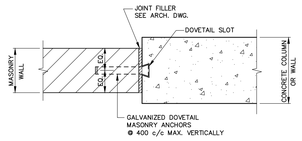
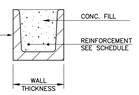
1100 TYPICAL DETAIL ANCHORAGE OF MASONRY WALL TO STEEL COL.

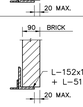
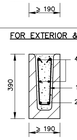
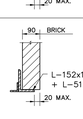
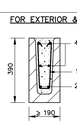
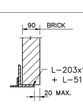


1101 TYPICAL ANCHORAGE OF MASONRY WALLS TO VERTICAL CONCRETE SUPPORT



1102 LINTEL SCHEDULE



MAXIMUM CLEAR SPAN	BLOCK LINTEL	MAXIMUM CLEAR SPAN	STEEL LINTEL FOR EXTERIOR WALL
2000	FOR INTERIOR WALL	1800	
2400	FOR INTERIOR WALL	2000	
2400	FOR EXTERIOR & CAVITY WALL	2400	
3000	FOR EXTERIOR & CAVITY WALL 	3000	
3600	FOR EXTERIOR & CAVITY WALL 	3600	

NOTES:

1. MINIMUM END BEARING FOR LINTELS SHALL BE 200mm.
2. CONCRETE FILL SHALL BE f'c = 25MPa.
3. PROVIDE TEMPORARY SHORING TO SUPPORT MASONRY OVER OPENINGS UNTIL CONCRETE HAS DEVELOPED FULL STRENGTH.

NOTES:

1. MINIMUM END BEARING FOR LINTELS SHALL BE 150mm.
2. ALL ANGLES SHALL BE HOT-DIPPED GALVANIZED.
3. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.21-04, 300W.

1103 TYPICAL STEEL LINTELS IN NON-LOAD BEARING MASONRY WALLS

MAX. CLEAR SPAN	200 (SEE ARCH. DWG.)	250 (SEE ARCH. DWG.)	300 (SEE ARCH. DWG.)	315 (SEE ARCH. DWG.)	365 (SEE ARCH. DWG.)
1200	$2L^S$ – 90x90x8	① L-90x90x8 ② L-125x90x8 (LLH)	$3L^S$ – 90x90x8	① L-100x100x8 ② L-100x100x8 ③ L-90x90x8	① L-100x100x8 ② L-150x100x8 (LLH) ③ L-90x90x8
1800	$2L^S$ – 100x90x8 (LLV)	① L-100x90x8 (LLV) ② L-125x125x8	$3L^S$ – 100x90x8 (LLV)	① L-100x100x8 ② L-100x100x8 ③ L-100x90x8 (LLV)	① L-100x100x8 ② L-150x100x8 (LLH) ③ L-100x100x8
2400	$2L^S$ – 125x90x8 (LLV)	① L-125x90x8 (LLV) ② L-125x125x10	$3L^S$ – 125x90x8 (LLV)	① L-125x90x8 (LLV) ② L-125x90x8 (LLV) ③ L-125x90x8 (LLV)	① L-125x90x8 (LLV) ② L-150x100x8 (LLH) ③ L-125x90x8 (LLV)
3000	$2L^S$ – 125x100x10 (LLV)	① L-150x100x10 (LLV) ② L-150x150x10	$3L^S$ – 150x100x10 (LLV)	① L-150x100x10 (LLV) ② L-150x100x10 (LLV) ③ L-150x100x10 (LLV)	① L-150x100x10 (LLV) ② L-150x100x10 (LLH) ③ L-150x100x10 (LLV)

NOTES:

1. FOR 150 WALL USE 2 OF 250 WALL ABOVE.
2. MIN. END BEARING FOR LINTELS SHALL BE 150mm.
3. BACK TO BACK ANGLES SHALL BE BOLTED OR WELDED TOGETHER WHEN CLEAR SPAN EXCEEDS 1800mm.
4. ALL ANGLES SHALL BE HOT-DIPPED GALVANIZED IF EXPOSED TO WEATHER.
5. PROVIDE L-90x90x10 WELDED TO STEEL COLUMN OR BOLTED TO CONCRETE COLUMN OR WALL TO SUPPORT LINTEL WHERE OPENING ABUTS COLUMN OR WALL.
6. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.21-04, 300W.

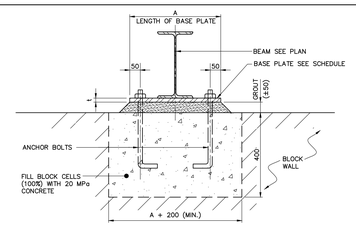
1104 STEEL LINTELS FOR NON-LOAD BEARING WALLS OF HOLLOW CONCRETE BLOCK (ANY AGGREGATE)

STEEL ANGLES CLEAR SPAN MAX.	90	140	190	240	290
1200	$2L^S$ – 51x38x4.8L.L.V.	$2L^S$ – 64x64x6.4	$2L^S$ – 89x76x6.4L.L.V.	1L – 102x76x6.4L.L.H. 1L – 127x76x6.4L.L.H.	$3L^S$ – 89x76x6.4L.L.H.
1600	$2L^S$ – 51x38x4.8(L.L.V.)	$2L^S$ – 64x64x6.4	$2L^S$ – 89x76x6.4L.L.V.	1L – 102x76x6.4L.L.H. 1L – 127x76x6.4L.L.H.	$3L^S$ – 89x76x6.4L.L.H.
2000		$2L^S$ – 89x64x6.4L.L.V.	$2L^S$ – 89x89x6.4	1L – 102x89x7.9L.L.H. 1L – 127x76x7.9L.L.H.	$3L^S$ – 89x76x6.4L.L.H.
2400		$2L^S$ – 89x64x9.5L.L.V.	$2L^S$ – 127x89x6.4L.L.V.	1L – 152x102x7.9L.L.V. 1L – 127x127x7.9	$3L^S$ – 127x89x6.4L.L.V.

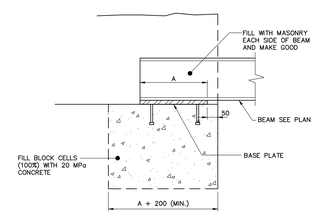
NOTES:

1. STRUCTURAL STEEL MATERIALS SHALL BE CAN/CSA G40.21-04 300W.
2. MINIMUM BEARING LENGTH FOR LINTELS SHALL BE 150mm.
3. CONNECT ANGLES AT 600 mm c/c BY WELDING OR BOLTING FOR ANGLES WITH A TOTAL LENGTH OF 1800mm OR MORE.
4. PROVIDE L-90x90x10 WELDED TO STEEL COLUMN OR BOLTED TO CONCRETE COLUMN OR WALL TO SUPPORT LINTEL WHERE OPENING ABUTS COLUMN OR WALL.
5. ALL ANGLES SHALL BE HOT-DIPPED GALVANIZED IF EXPOSED TO WEATHER.

1105 DETAILS OF MASONRY BASE PLATES

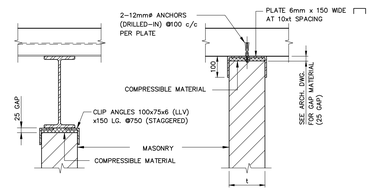


BASE PLATES WITH BOLTS

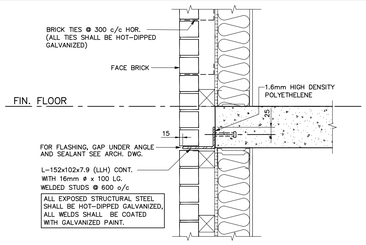


BASE PLATES WITH STUDS

1106 TYPICAL LATERAL SUPPORT FOR NON-LOAD BEARING WALL



1107 TYPICAL SHELF ANGLE DETAIL



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REGISTERED PROFESSIONAL ENGINEER
P.F. AST
13015
PROVINCE OF ONTARIO

IMPERIAL SCALE DRAWING
FIRST FLOOR ELEV. 93.60m

no.	issued / revised	date:
1	ISSUED FOR PERMIT	2014-05-30
2	REISSUED FOR PERMIT	2014-07-10
3	ISSUED FOR FORMING TENDER	2014-08-27

ALEXANDRA PARK - BLOCK 11
TORONTO, ONTARIO

project no: 13015
scale: AS NOTED
drawn by: H.W.
reviewed by: HOLMAN
date started: MARCH 2014

TYPICAL DETAILS

S-005

2014-08-27

1219x914

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