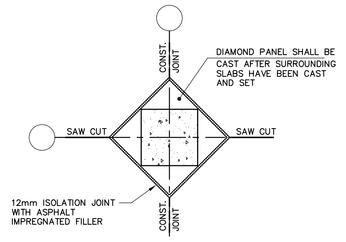
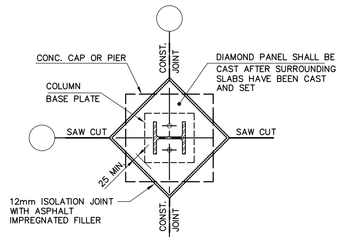
205 TYPICAL ISOLATION JOINTS DETAILS AT COLUMNS

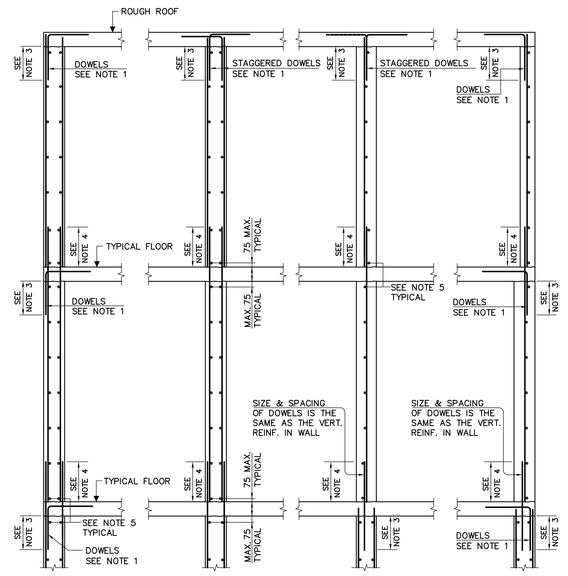


TYPICAL ISOLATION JOINT DETAIL AROUND CONCRETE COLUMNS



TYPICAL ISOLATION JOINT DETAIL AROUND STEEL COLUMNS

300 TYPICAL DETAILS FOR CONCRETE SHEAR WALLS

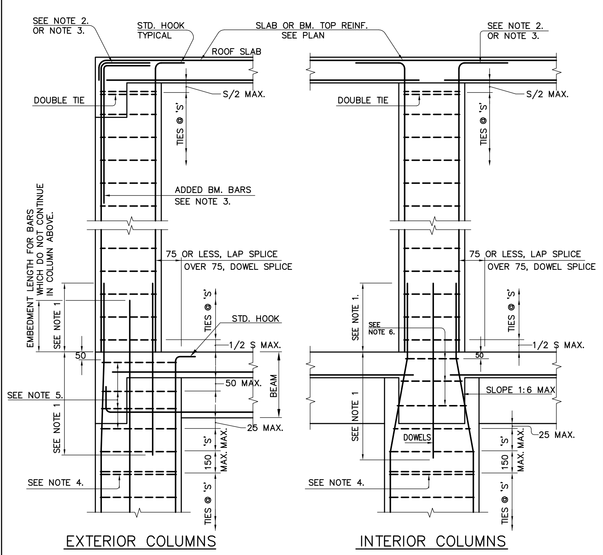


WALLS WITH 2 LAYERS OF REINF. WALLS WITH 1 LAYER OF REINF.

NOTES:

1. PROVIDE DOWELS OF EQUAL AREA TO THE ADJACENT SLAB MIN.TEMP. REINF. BUT NOT LESS THAN 10@300 OR VERT. WALL REINF. HORIZONTAL LEG OF DOWELS TO BE EQUAL TO THE TENSION DEVELOPMENT LENGTH, UNLESS OTHERWISE NOTED.
2. FOR SHEAR WALL SIZE & REINF. SEE WALL SCHEDULE.
3. PROVIDE TENSION DEVELOPMENT LENGTH.
4. PROVIDE COMPRESSION LAP SPLICE LENGTH.
5. AT TOP AND BOTTOM OF EACH STOREY ADD 2-15 FOR 2 LAYERS AND 1-15 FOR 1 LAYER UNLESS OTHERWISE NOTED.

400 TYPICAL CONCRETE COLUMN DETAILS

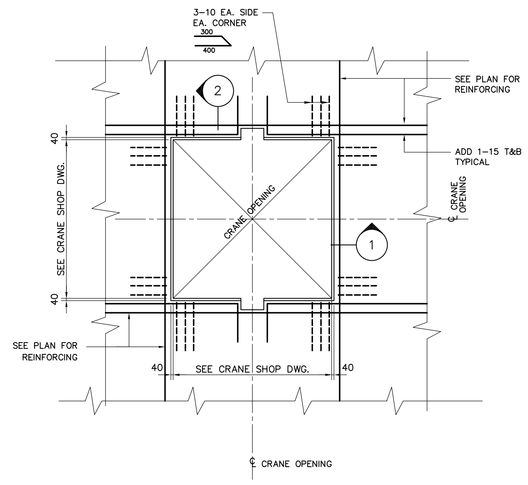


EXTERIOR COLUMNS INTERIOR COLUMNS

NOTES:

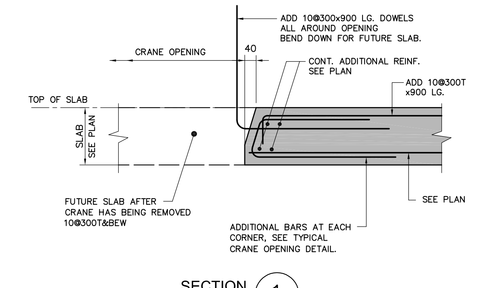
1. ALL COLUMN VERT. REINF. SHALL BE COMPRESSION LAP SPLICED EXCEPT WHERE SHOWN THUS ▲ IN THE COLUMN SCHEDULE, WHICH DENOTES TENSION LAP SPLICE.
2. COLUMN VERT. BARS SHALL BE TERMINATED WITH A FULL DEVELOPMENT COMPRESSION LENGTH INTO THE ROOF STRUCTURE UNLESS THE DEPTH OF STRUCTURE IS TOO SHALLOW TO ACCOMMODATE IT, IN WHICH CASE ADD ADDITIONAL DOWELS AS PER COLUMN SCHEDULE.
3. BARS NOTED THUS ▲ IN COLUMN SCHEDULE SHALL BE PROVIDED WITH CLASS 'B' TENSION SPLICE WITH TOP BARS OF MAIN FLOOR REINF.
4. PROVIDE DOUBLE STIRRUPS IN BOTTOM POSITION OF GOOSE-NECKED VERTICALS AS FOLLOWS: 2-10 FOR 30 VERTICALS AND SMALLER 2-15 FOR 35 & 45 VERTICALS
5. PROVIDE 10M TIES @ 300 FOR COLUMNS UP TO 750 WIDE (IN DIRECTION OF BEAMS) AND 15M TIES @ 300 FOR WIDER COLUMNS.
6. PROVIDE TIES, SAME AS PER NOTE 5, IF LESS THAN 4 BEAMS FRAME INTO COLUMN. NO ADDED TIES ARE REQUIRED WHEN COLUMN IS SUPPORTED BY BEAMS FROM 4 SIDES.

1004 SUGGESTED CRANE OPENING DETAILS

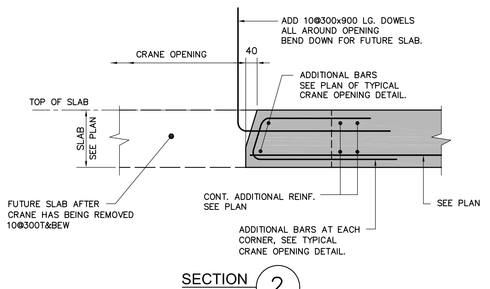


TYPICAL CRANE OPENING DETAIL ALL LEVELS

NOTE:
FOR EXACT DIMENSIONS AND ADDITIONAL DETAILS SEE CRANE SHOP DRAWINGS.

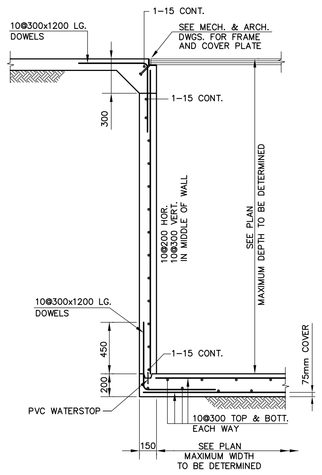


SECTION 1

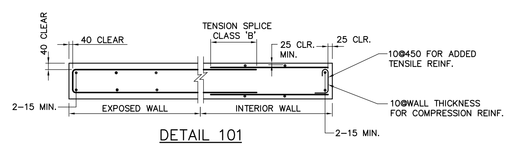


SECTION 2

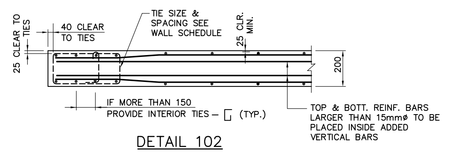
210 TYPICAL SUMP PIT DETAIL



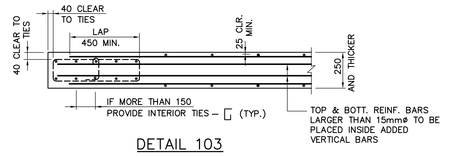
301 DETAILS FOR ADDED VERTICAL REINFORCING IN SHEAR WALLS



DETAIL 101

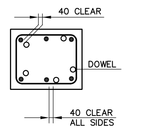


DETAIL 102



DETAIL 103

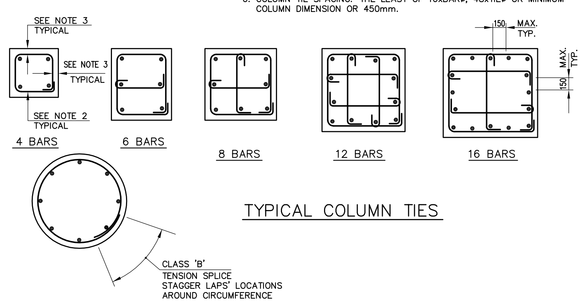
401 TYPICAL CONCRETE COLUMN TIES



SECTION FOR DOWEL LAP SPLICES

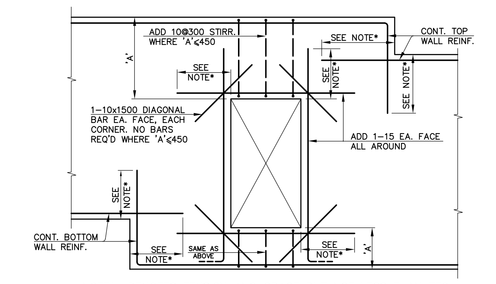
COLUMN TIE NOTES

1. VERTICAL REINF. BARS SHALL BE EQUALLY SPACED AROUND THE PERIMETER OF COLUMNS.
2. ALTERNATE POSITION OF HOOKS IN PLACING SUCCESSIVE SETS OF TIES.
3. MINIMUM COVER TO TIES = 40mm TYPICALLY. (SEE GENERAL NOTES)
4. ELIMINATION OF TIE FOR CENTRE BARS IN GROUPS OF 3, LIMITS CLEAR SPACING TO 150mm MAX. UNLESS OTHERWISE SPECIFIED, BARS SHALL BE SO GROUPED.
5. PROVIDE 10M TIES FOR REINF. UP TO 30M BARS; 15M TIES FOR 35M BARS OR LARGER.
6. COLUMN TIE SPACING: THE LEAST OF 16xBAR#, 48xTIE# OR MINIMUM COLUMN DIMENSION OR 450mm.



TYPICAL COLUMN TIES

1000 TYPICAL DETAILS OF OPENINGS IN WALLS & SLABS



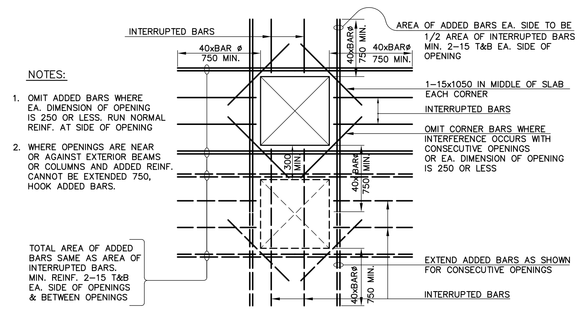
NOTE* DENOTES TENSION ANCHORAGE BUT NOT LESS THAN 750

TYPICAL DETAIL OF OPENING IN WALL

UNLESS OTHERWISE SHOWN ON WALL ELEVATIONS

NOTES:

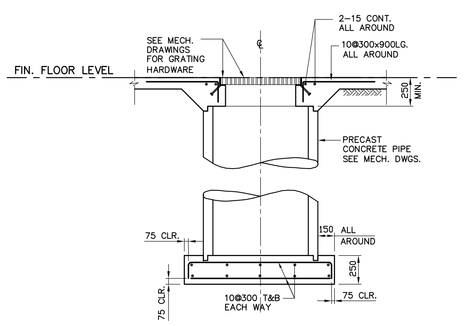
1. OMIT ADDED BARS WHERE EA. DIMENSION OF OPENING IS 250 OR LESS, RUN NORMAL REINF. AT SIDE OF OPENING
2. WHERE OPENINGS ARE NEAR OR AGAINST EXTERIOR BEAMS OR COLUMNS AND ADDED REINF. CANNOT BE EXTENDED 750, HOOK ADDED BARS.



TYPICAL DETAIL OF OPENING IN SLAB

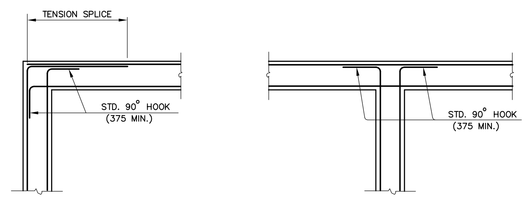
UNLESS OTHERWISE SHOWN ON PLAN.

211 TYPICAL PRECAST MECHANICAL PIT

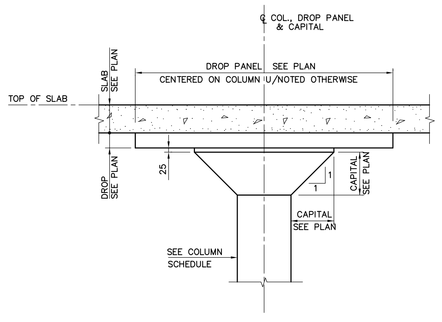


REFER TO MECHANICAL DRAWINGS FOR SIZE AND DEPTH

302 TYPICAL DETAILS OF CONT. WALL REINF.

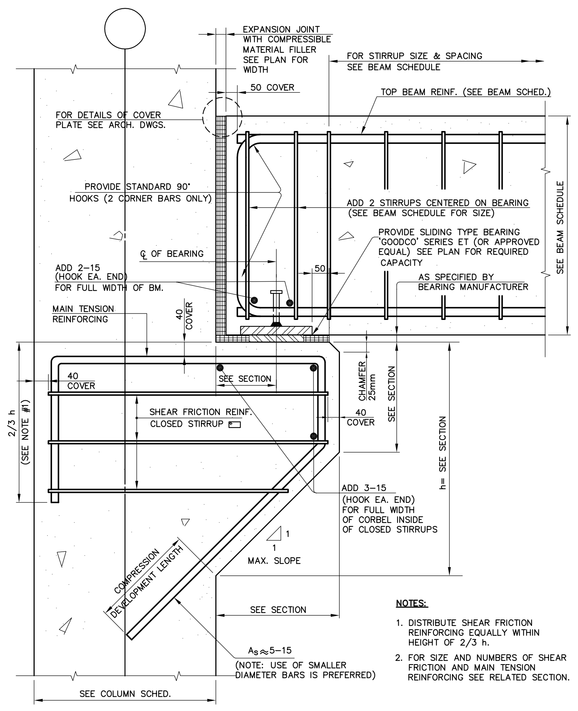


402 TYPICAL COLUMN CAPITAL DETAIL



NOTE: ALL CAPITALS SHALL BE CAST MONOLITHICALLY WITH SLAB

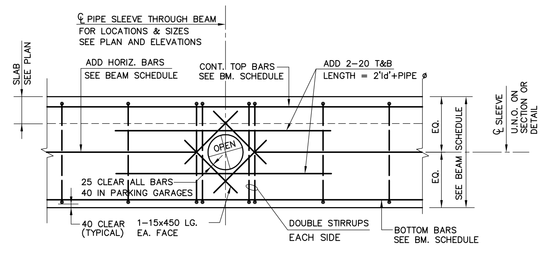
403 TYPICAL DETAIL OF COLUMN CORBEL BEAM SUPPORT



NOTES:

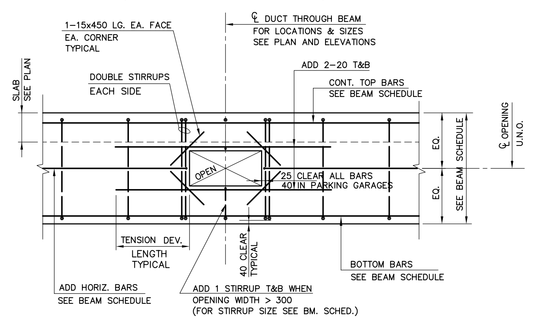
1. DISTRIBUTE SHEAR FRICTION REINFORCING EQUALLY WITHIN HEIGHT OF 2/3 h.
2. FOR SIZE AND NUMBERS OF SHEAR FRICTION AND MAIN TENSION REINFORCING SEE RELATED SECTION.

1001 TYPICAL DETAILS OF OPENINGS THROUGH BEAMS



SLEEVE THROUGH BEAMS

(FOR PIPE SIZE LARGER THAN 100ø)



OPENING THROUGH BEAMS

NOTES:

1) OPENINGS THROUGH BEAMS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND ADDED REINF. SHALL BE PROVIDED UNLESS OTHERWISE NOTED ON SPECIFIED DETAILS.
2) ALL PIPE SLEEVES SHALL BE FORMED EMPLOYING SCHEDULE 40 STEEL PIPE.

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1129 LESLIE STREET
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FIRST FLOOR ELEV. 93.60m

no.	issued / revised	date:
1	ISSUED FOR PERMIT	2014-05-30
2	RE ISSUED FOR PERMIT	2014-07-16
3	ISSUED FOR FORMING TENDER	2014-08-27
4	CONSTRUCTION REVIEW	2014-12-15
5	RE ISSUED FOR PERMIT	2015-01-27
6	ISSUED FOR CONSTRUCTION	2015-03-16
7	UPDATED - IFC	2015-04-20

ALEXANDRA PARK - BLOCK 11
TORONTO, ONTARIO

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

TYPICAL DETAILS

S-002