

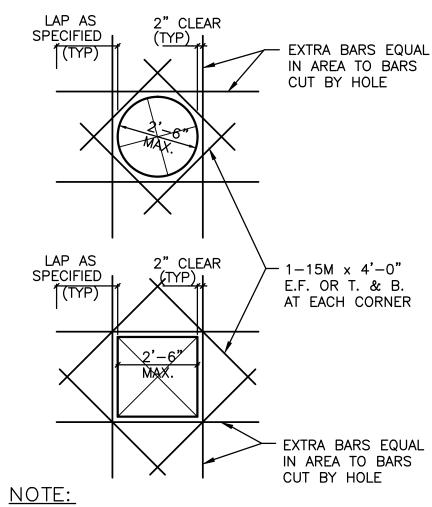
- NORMAL WEIGHT CONCRETE.
- CLEAR COVER GREATER THAN 1.5 x BAR DIAMETER. - CLEAR SPACING NOT LESS THAN 2 x BAR DIAMETER.
- MULTIPLY ABOVE BY 1.3 FOR HORIZONTAL REBAR SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.

## REINFORCING LAP LENGTHS

UNLESS NOTED OTHERWISE ON DRAWINGS

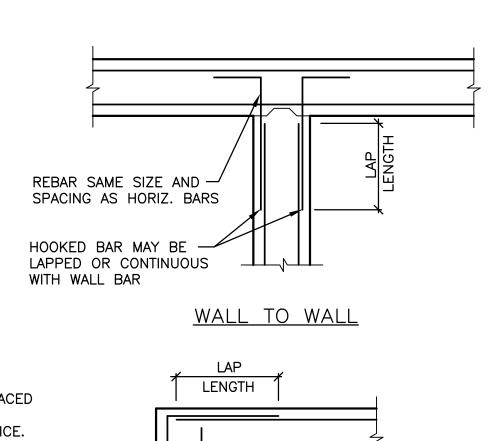
BAR LOCATIONS	REINF. COVER	
FOOTING, SLABS, OR WALLS, WHERE CONCRETE IS CAST AGAINST EARTH	3"	
CONCRETE EXPOSED TO EARTH, LIQUID, WEATHER, HUMID ENVIRONMENT OR CAST AGAINST WORKING SLAB	2"	
BEAM STIRRUPS & COLUMN TIES	1 1/2"	
SUSPENDED SLAB	3/4"	

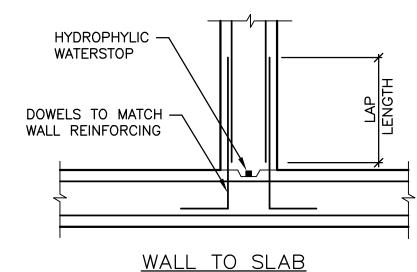
#### TABLE OF CONCRETE COVER UNLESS NOTED OTHERWISE ON DRAWINGS



1. FOR HOLES UP TO 6" NO EXTRA BARS ARE REQUIRED BUT NORMAL STEEL SHALL BE BENT AROUND HOLES.

## ADDITIONAL REINFORCING AT SLAB OR WALL OPENINGS SCALE: NOT TO SCALE



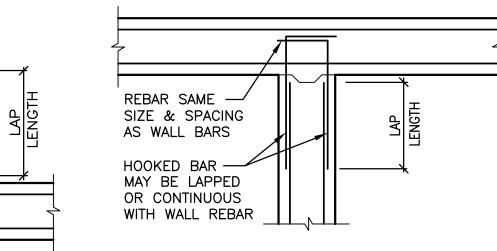


HYDROPHYLIC -

WATERSTOP

DOWELS TO MATCH -

WALL REINFORCING



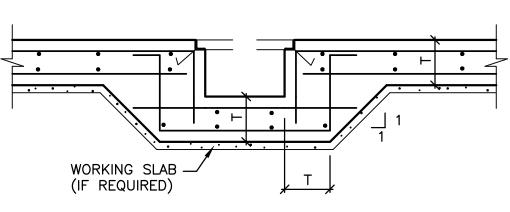
WALL TO ROOF

LENGTH REBAR SAME-SIZE & SPACING AS ROOF BARS IF WALL REBAR MATCHES SIZE & SPACING OF ROOF REBAR - CORNER REBAR MAY BE CONTINUOUS WALL TO ROOF

### TYPICAL CONCRETE WALL INTERSECTIONS (UNLESS NOTED OTHERWISE ON THE DRAWINGS)

WALL TO SLAB

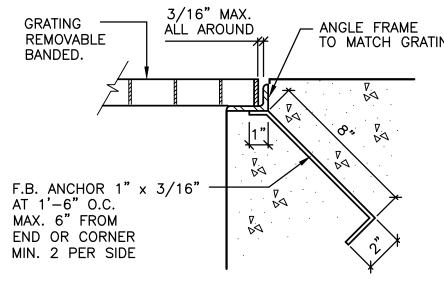
SCALE: NOT TO SCALE



WALL TO WALL

- 1. SIZE AND SPACING OF SUMP REINFORCING TO MATCH BASE SLAB REINFORCING.
- 2. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMINOUS PAINT.

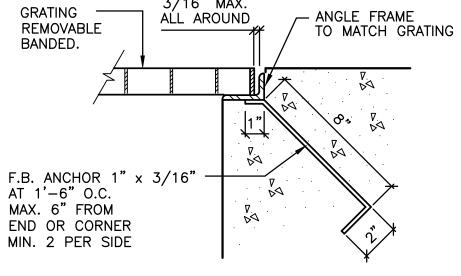
SUMP PIT SCALE: N. T. S.



#### NOTES:

- 1. ALL GRATING TO BE FASTENED TO FRAME WITH SADDLE CLIPS UNLESS OTHERWISE NOTED.
- 2. BAND ALL EXPOSED GRATING EDGES.

FRAME DETAIL FOR GRATING SCALE: NOT TO SCALE



# TYPICAL REINFORCING AROUND OPENINGS IN CONCRETE SLAB OR WALL

SCALE: N. T. S.

SCALE: N. T. S.

SCALE: N. T. S.

- 1-15M ×1200 LG. EA. CORNER AS

SHOWN

- 1. NUMBER OF REINFORCING BARS TO BE CUT AT OPENING TO BE KEPT AT A MINIMUM. DEFLECT AS MANY BARS AS POSSIBLE AROUND OPENING.
- 2. REINFORCING BARS TO BE KEPT MINIMUM 50 CLEAR OF

- 20-20M TOP & BOTTOM

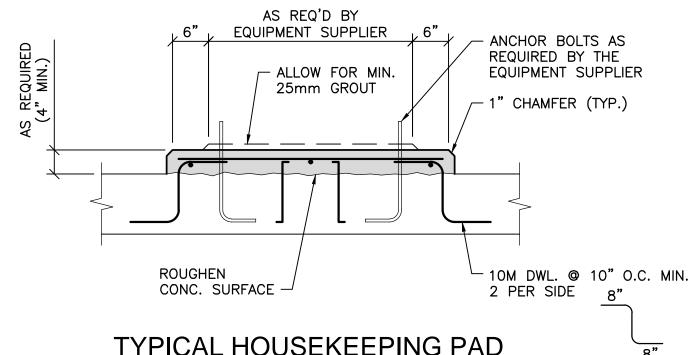
PLAN SHOWING EXTRA REINF. AROUND OPENING 300 TO 760

 $-2-15M \times 1200 LG.$ TOP AND BOT.

PLAN SHOWING EXTRA REINF.

AROUND OPENING 150 TO 280

3. CIRCULAR OPENINGS TO BE TREATED IN SAME MANNER AS RECTANGULAR UNLESS OTHERWISE DETAILED.



- BEAM OR

BEAM OR

SCALE: N. T. S.

- 1. SIZE, NUMBER, TYPE, LOCATION AND THREAD PROJECTION OF ANCHOR BOLTS IS TO BE DETERMINED BY THE EQUIPMENT
- 2. ANCHOR BOLTSSHALL BE HELD IN PLACE BY TEMPLATE WHILE SLAB IS CAST.
- 3. BASES SHALL BE LEVEL UNLESS NOTED OTHERWISE.
- 4. SLAB REINFORCEMENT NOT SHOWN FOR CLARITY. PAD DESIGN IS FOR EQUIPMENT ANCHOR TO SLAB. CONTRACTOR TO SIZE AND LOCATE PAD REINFORCEMENT TO SUIT ALTERNATIVE BOLT ARRANGEMENTS.

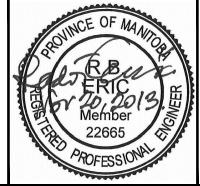
# TYPICAL HOUSEKEEPING PAD

# **Conditions of Use**

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

Do not scale dimensions from drawing.

Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.







		QUIPMEI CTURAL				
				DESIGN	REVIEWED BY	
				BWD  DRAWN CHEC	RE	
					CHECKED BY	
					CGC	
				AUGUST 2013  SCALE  AS NOTED		
0	ISSUED FOR BID OPPORTUNITY NUMBER 850-2013	13-11-20	RE			
No.	ISSUED FOR	DATE	BY			

STRUCTURAL
<b>SECTIONS &amp; DETAILS 3</b>

PAN AM POOL ELECTRICAL UPGRADE

SHEET NO.

137300

- 2-15M x 1200 LG. EA. CORNER AS

- 1-15M x 1200 LG. EA. CORNER AS SHOWN

2-20M TOP AND BOT.

E.F. AS SHOWN

<u>WHEN OPENING IS MORE</u> THAN 300 FROM BEAM OR WALL

SHOWN

WHEN OPENING IS MORE

THAN 300 FROM BEAM OR WALL