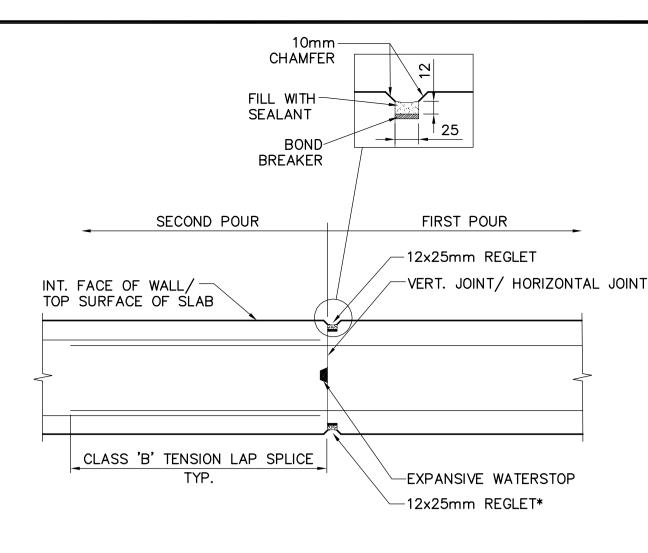


HOUSE KEEPING PADS FOR EQUIPMENT ON STRUCTURAL SLAB

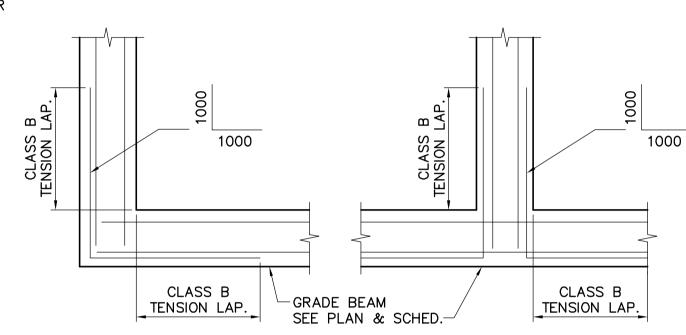
SCALE N.T.S.

2-15M x1200 LG. TOP AND BOT.



TYPICAL CONSTRUCTION JOINT

*NOT APPLICABLE FOR FLOOR SLABS REINFORCING IN PERPENDICULAR DIRECTION NOT SHOWN. REFER TO SPECIFIC SECTION FOR REINFORCING DETAILS.



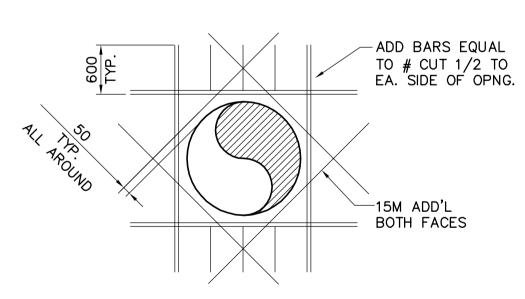
TYPICAL GRADE BEAM CORNER REINFORCING

SCALE N.T.S.

SCALE N.T.S. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING

2-15M x1200 LG. EA. CORNER

AS SHOWN



EXTRA REINFORCING AROUND PIPE UP TO 1250Ø MAX. CAST IN WALL OR FLOOR SLAB

APEGIN

G PILE G PILE LAP TOP REINF. GRADE BEAM REFER TO PLAN AT MID SPAN AND SCHED. LAP BOT. REINF. OVER PILES CONC. PILE REFER TO PLAN TYP. AND SCHED.

GRADE BEAM SPLICE DETAIL

DATE | BY | DATE

FIRST POUR

JOINT SEALANT-

40mmø

SEMI-RIGID

PVC FOAM

JOINT FILLER

BACKER ROD-

PVC WATERSTOR

STANDARD JOINT

25

EXPANSION JOINT TYP.

SECOND POUR

EXPANSIVE WATERSTOP

CONC. LEAN MIX BASE (MUD SLAB)

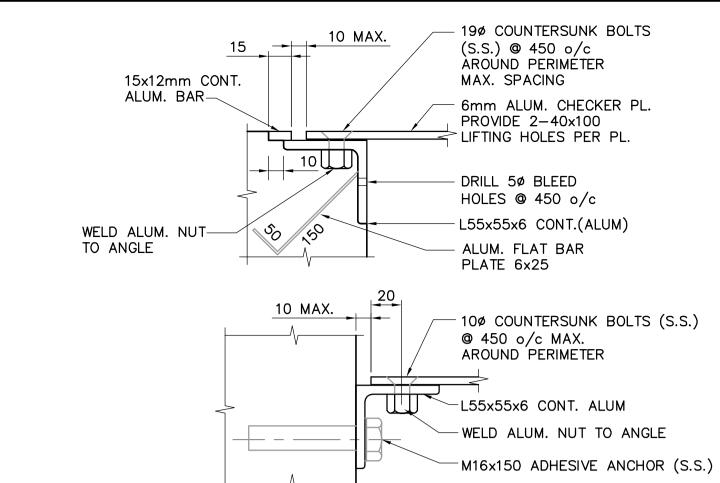
WHERE SPECIFIED

CONSTRUCTION JOINT FOR WATER

RETAINING WALL TO BASE SLAB

12x25 REGLET

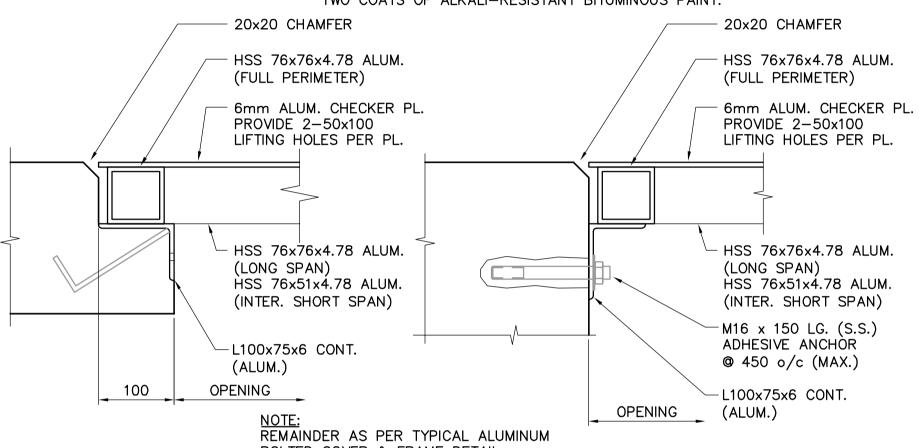
RESILIENT FILLER



TYPICAL ALUMINUM BOLTED **COVER & FRAME DETAIL**

SCALE N.T.S.

REFER TO GENERAL NOTES FOR DESIGN LIVE LOADS ON COVERS. PAINT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH TWO COATS OF ALKALI-RESISTANT BITUMINOUS PAINT.



BOLTED COVER & FRAME DETAIL ALUMINUM HSS FRAMED COVER & FRAME DETAIL

CLASS 'B' TENSION LAP SPLICE -CONC. WALL -CORNER BARS ARE SAME SIZE AND SPACING AS HORIZ. REINF -HORIZ. REINF.

TYPICAL REINFORCING FOR WALL INTERSECTION

SCALE N.T.S. VERTICAL REINFORCING NOT SHOWN. REFER TO SPECIFIC SECTION FOR REINFORCING DETAILS.

STRUCTURAL

DETAILS

CITY FILE NUMBER

CITY DRAWING NUMBER

C = CONC. COVER AS SPECIFIED T = REFER TO SCHED.

66303D-CS4.01

SCALE N.T.S.

ENGINEER'S SEAL THE CITY OF WINNIPEG ELEV. ORIGINAL Winnipeg WATER AND WASTE DEPARTMENT SIGNED BY Earth Tech (Canada) Inc R.B. ERIC DESIGNED CHECKED RE. MK **NEWPCC - SECONDARY EFFLUENT** FEB. 18/05 DRAWN APPROVED UV DISINFECTION FACILITY **Certificate of Authorization** C.T. Earth Tech Canada Inc. RELEASED FOR CONSTRUCTION BY: AS NOTED HOR. SCALE: VERTICAL SCALE: AS NOTED CONSULTANT DRAWING NO T. KJARTANSON No. 730 Expiry: April 30, 2005 0 ISSUED FOR TENDER 05/02/18 JEH

DATE 2005-02-18

2004/11/04

PLAN SHOWING EXTRA REINF. WHEN OPENING IS MORE THAN 300 FROM BEAM OR WALL AROUND OPENING 150 TO 280 ADD BARS EQUAL -TO # CUT, 1/2 TO EA. SIDE OF OPNG. 770 TYP. 1-15M x1200 LG. EA. CORNER AS SHOWN 1-15M x1200 LG. EA. CORNER AS SHOWN WALL ADD BARS EQUAL TO # CUT, 1/2 TO EA. SIDE OF OPNG. * WHEN THIS DIM. IS 300 OR LESS PLAN SHOWING EXTRA REINF. WHEN OPENING IS MORE THAN 300 FROM BEAM OR WALL AROUND OPENING 300 TO 760

TYPICAL REINFORCING AROUND OPENINGS IN CONCRETE SLAB OR WALL

SCALE N.T.S.

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

Feb 21, 2005 - 12:51pm PLOTTED BY: jorge.ducharme LAYOUT:Layout1 FILE:L:\work\66000\66303Dis\02a-CAD\ALL\SUBMISSION\TENDER-PDF\CS4-01.dwg