THICKEN SLAB

15M@300, TYP

NOTES:

BELOW.

200 MIN ALL

75 CLR,

TYP

AROUND

AT ENCASEMENT-

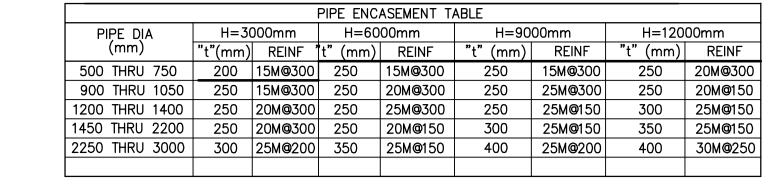
600

PIPE JOINT

SLAB JOINT

15M@300

CENTERED ON



TYPICAL SLAB REINF

-15M@300 300 300

-50MM ETHAFOAM 220 OR EQUAL

ON EACH SIDE TYP WHEN

PIPE ENCASEMENT TIED TO

15M@300 TYPICAL

DISCONTINUOUS

AT JOINT

ENCASEMENT REINF

NOT SHOWN

-15M**@**300

-SEE NOTE 2

BASE SLAB TYP

SLAB EXPANSION & CÓNTROL JOINTS

- CL SLAB EXP, CONTRACTION

FOR LOCATION & JT TYPE

-ENCASEMENT JOINT TYPE SAME AS SLAB JOINT, SEE SLAB JOINT DETAILS

- CONSTRUCTION JOINT

-EXTEND ENCASEMENT

INTO TOP OF SLAB

2 - 15M EACH SIDE

300 300

TYPICAL PIPE

ENCASEMENT

ENCASEMENT RISER GROSS END AREA

SECTION

PIPE ENCASEMENT

ENCASEMENT REINF

BEND & LAP PIPE

REINF 300mm, TYP

-PROVIDE LEVEL BEARING

EQUAL TO ENCASEMENT

15M TIES @300

LAP LENGTH SEE

7 **–** 15M

CONTINUOUS

GENERAL STRUCTURAL

AREA BELOW VERT PIPE RISER

VERTS AND BEND 300mm

HYDROPHILIC WATERSTOP

CONTINUOUS ALL AROUND

IN ALL CONSTRUCTION JOINTS

- COUPLING

+150mm

LENGTH

OR CONTROL JT, SEE PLANS

LOCATE PIPE FLEX COUPLING (WITHOUT THRUST TIES) AT ALL

- CONSTRUCTION

JOINT

SECTION

JOINT DETAIL

3. PROVIDE 50MM ETHAFORM 220 OR EQUAL ON EACH SIDE OF PIPE ENCASEMENT

2. 150mm PLASTIC WS IN ENCASEMENT JOINTS. WELD TO WS IN SLAB JOINTS. SEE DETAIL

1. TIE PIPE ENCASEMENT TO SLAB AS SHOWN WHEN DISTANCE BETWEEN PIPE

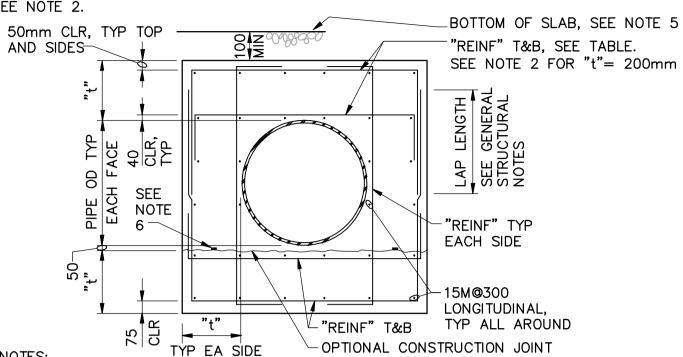
PIPE ENCASEMENT

ENCASEMENT AND BOTTOM OF SLAB IS LESS THAN 400mm.

N.T.S.

WB-S045'

600 TYP - HEAVY DARK LINE INDICATES BREAK BETWEEN ONE LAYER OF REINFORCING AND TWO. SEE NOTE 2.



NOTES: 1. THIS DETAIL APPLIES TO PIPE DIAMETER OF 500mm AND LARGER. FOR SMALLER THAN 500mm, SEE DETAIL

3. FOR ENCASEMENT AT PIPE RISER, SEE 4. "H" IS FILL HEIGHT OR WATER DEPTH OR COMBINATION ABOVE PIPE.

2. FOR "t"=200mm REINFORCING SHALL BE ONE LAYER AND CENTERED IN SLABS OR WALLS. SIM F

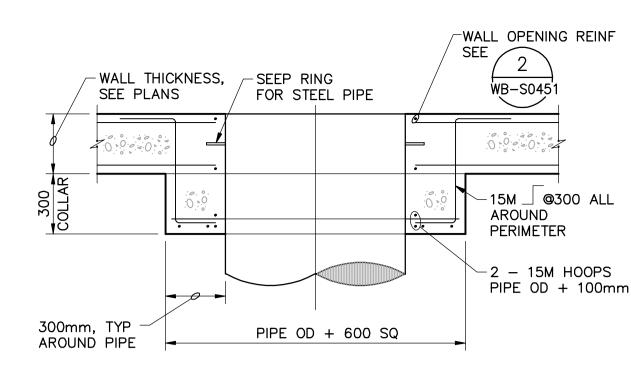
UNLESS DETAILED OTHERWISE.

6. HYDROPHILIC WATERSTOP CONTINUOUS ALL AROUND IN ALL CONSTRUCTION JOINTS.

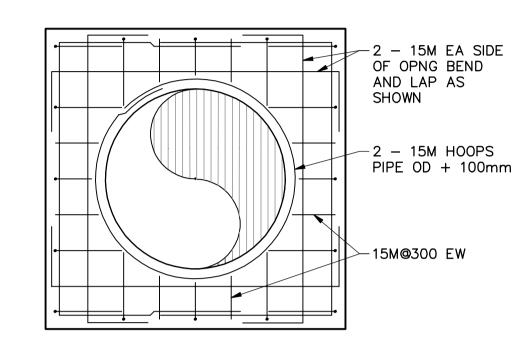
5. WHEN PIPE ENCASEMENT CLOSER THAN 400mm TO SLAB ABOVE, TIE SLAB &

ENCASEMENT TOGETHER. SEE

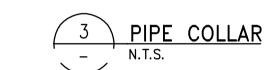


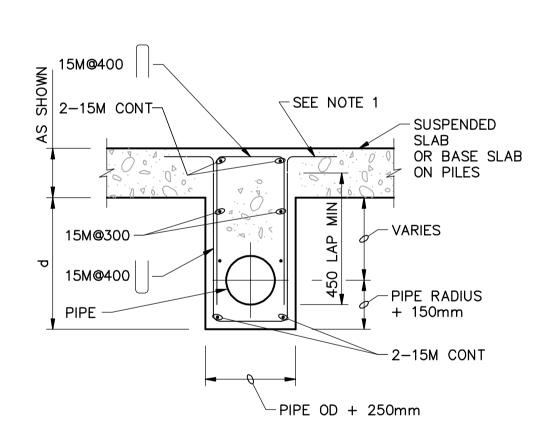


PLAN/SECTION



ELEVATION



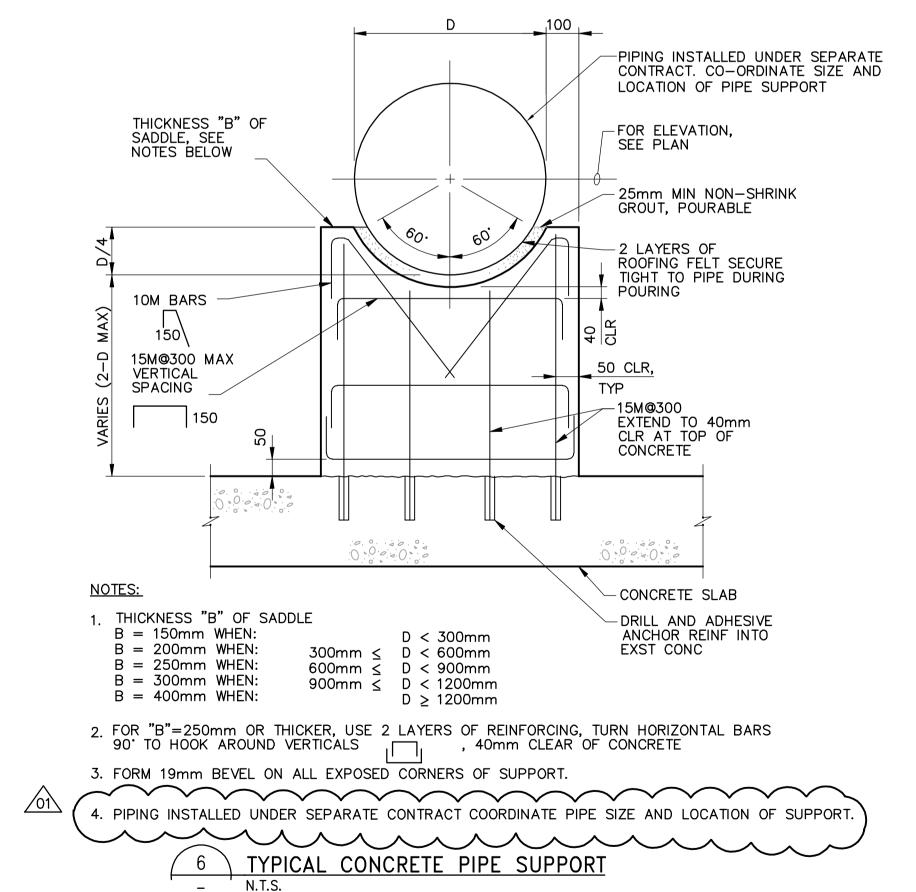


SECTION

NOTES:

- 1. IF d<600 BEND BOTTOM U-BARS TO FORM HOOK OUT AT TOP (AS SHOWN DOTTED). DELETE TOP U-BAR.
- 2. IF d>600 DETAIL AS SHOWN WITH U-BARS ON TOP AND BOTTOM.





B.M. © CH2MHILL ENGINEER'S SEAL ELEV. **EarthTech** Frederickson Cooper ORIGINAL **APEGN** SIGNED BY ARCHITECTS D. KRUGER CHECKED DESIGNED Certificate of Authorization DK 2006/02/06 CH2M HILL Canada Ltd. DRAWN APPROVED DJT PΤ No. 1441 Expiry: April 30, 2006 RELEASED FOR CONSTRUCTION BY: SCALE: NTS 01 583-2005 ADDENDUM 3 06/03/10 DK CONSULTANT DRAWING NO. R. SOROKOWSKI 00 ISSUED FOR TENDER 2006/02/03 DK DATE BY DATE NO. REVISIONS 2005/08/31 DATE 2006/02/08

WB-S0458 STANDARD DETAILS P:\EARTHTECH\321352WINNIPEGWTP\NDM\DESIGN\ACAD\583-POSTTENDER\DN_WB-S0458_CH2M.DWG

Winnipeg ENGINEERING DIVISION

WATER TREATMENT PLANT

FOUNDATIONS AND CONCRETE STRUCTURES

STRUCTURAL

THE CITY OF WINNIPEG

CITY FILE NUMBER

CITY DRAWING NUMBER

1-0601B-A-S0458-001-01D

SHEET

WATER AND WASTE DEPARTMENT

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