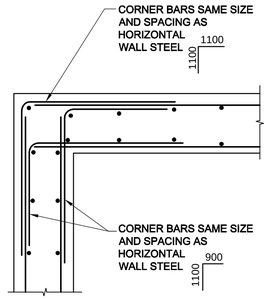
D SIZE 22" x 34" (559mm x 864mm)



OUTSIDE CORNER REINFORCING

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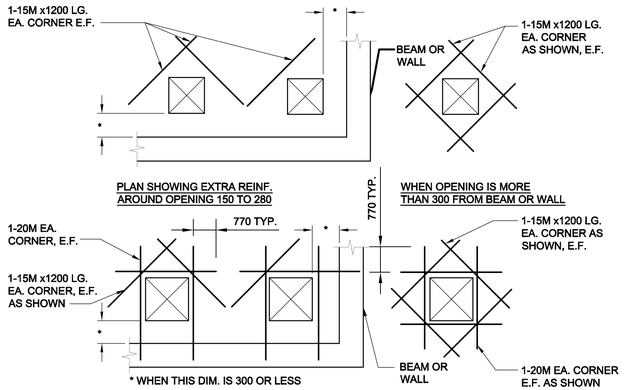
DETAIL STD –

0 100 200 300 mm SCALE 1:10



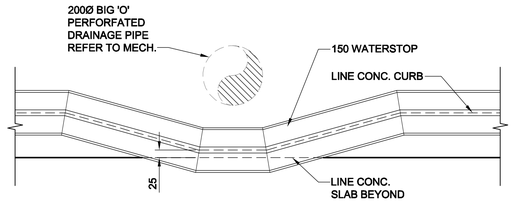
1. NUMBER OF REINFORCING BARS TO BE CUT AT OPENING TO BE KEPT AT A MINIMUM. DEFLECT AS MANY BARS AS POSSIBLE AROUND OPENING.
2. REINFORCING BARS TO BE KEPT MINIMUM 50 CLEAR OF OPENING.
3. CIRCULAR OPENINGS TO BE TREATED IN SAME MANNER AS RECTANGULAR UNLESS OTHERWISE DETAILED.

TYPICAL REINFORCING AROUND OPENINGS IN CONCRETE SLAB OR WALL

0 100 200 300 mm SCALE 1:10

DETAIL STD –

0 100 200 300 mm SCALE 1:10

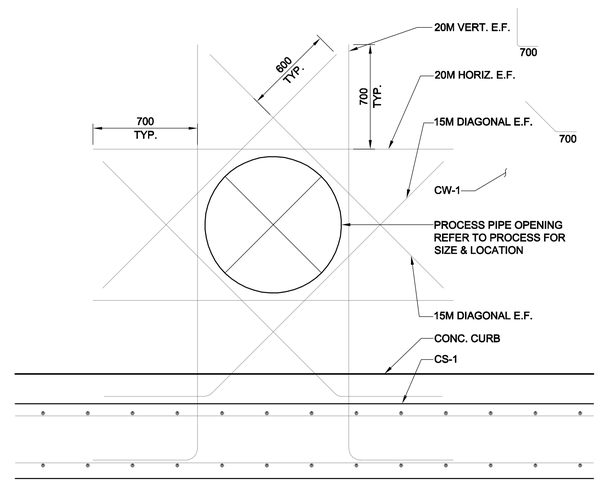


WATERSTOP DETAIL @ PIPES

0 100 200 300 mm SCALE 1:10

DETAIL STD –

0 100 200 300 mm SCALE 1:10



TYPICAL REINF. DETAIL @ WALL PENETRATIONS

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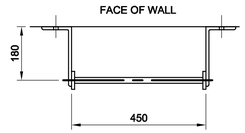
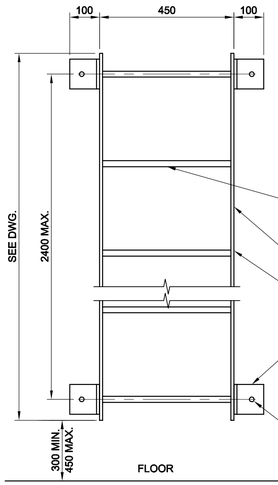
DETAIL STD –

0 200 400 600 mm SCALE 1:20



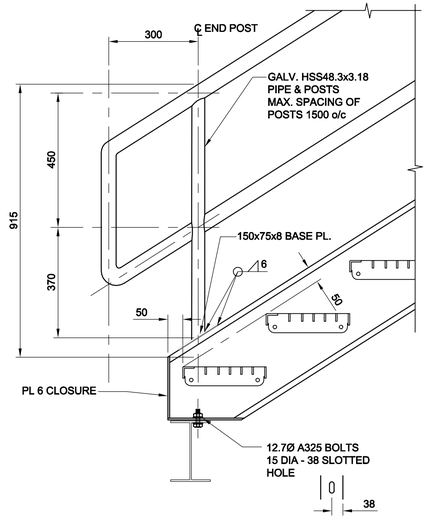


GALV. STEEL LADDER

0 100 200 300 mm SCALE 1:10

DETAIL STD –

0 100 200 300 mm SCALE 1:10



GALV. STEEL HANDRAIL TO STAIR

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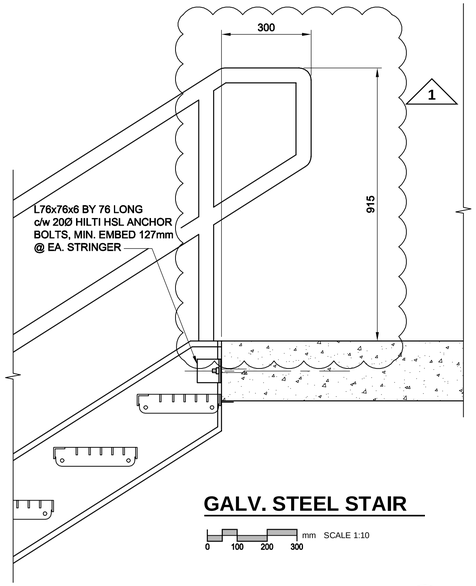
DETAIL STD –

0 100 200 300 mm SCALE 1:10



GALV. STEEL STAIR

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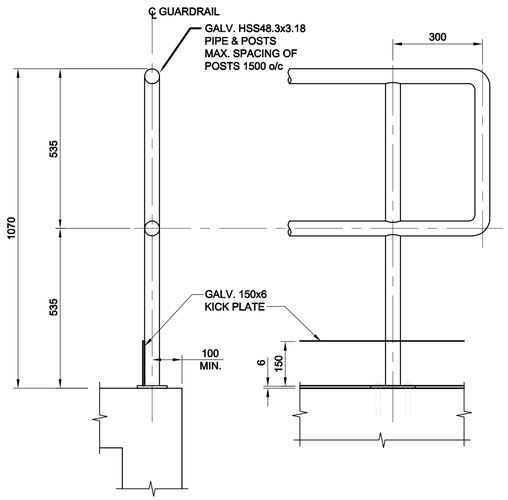
DETAIL STD –

0 100 200 300 mm SCALE 1:10



SECTION ELEVATION

GALV. STEEL GUARDRAIL

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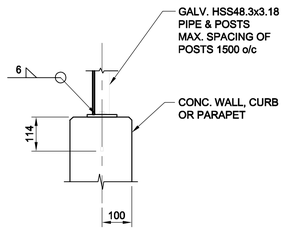
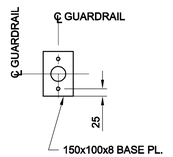
DETAIL STD –

0 100 200 300 mm SCALE 1:10





SECTION PLAN

GALV. STEEL GUARDRAIL ANCHORAGE

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DETAIL STD –

0 100 200 300 mm SCALE 1:10

PLOT: 10/02/26 11:08:17 AM
AECOM FILE NAME: D265-250-00_01-S-5001_RX.dwg Saved By: dippanslimak
AECOM REVIEW | DRFT CHK | KK

BID OPPORTUNITY NO. 16-2010

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES COMMITTEE — DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	YY/MM/DD	BY
1	ISSUED FOR ADDENDUM 1	10/02/26	KK
0	ISSUED FOR CONSTRUCTION	10/02/08	KK

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DESIGNED BY	KK/GGP	CHECKED BY	GGP
DRAWN BY	KK	APPROVED BY	Bryan Weber
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	KZ
VERT. SCALE	-		
DATE	10/02/09	DATE	FEB. 9/10

PROFESSIONAL'S SEAL

ORIGINAL SIGNED BY
B.F. ABDUL WAHID
2010/02/08

CONSULTANT DRAWING NO.
D265-250-00_01-S-5001_RX.dwg

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

BRANCH I AQUEDUCT VALVE CHAMBER AT McPHILLIPS STREET PUMPING STATION

STRUCTURAL
STANDARD DETAILS
-

SHEET 22 OF 28

CITY DRAWING NUMBER
D-11932 REV 1