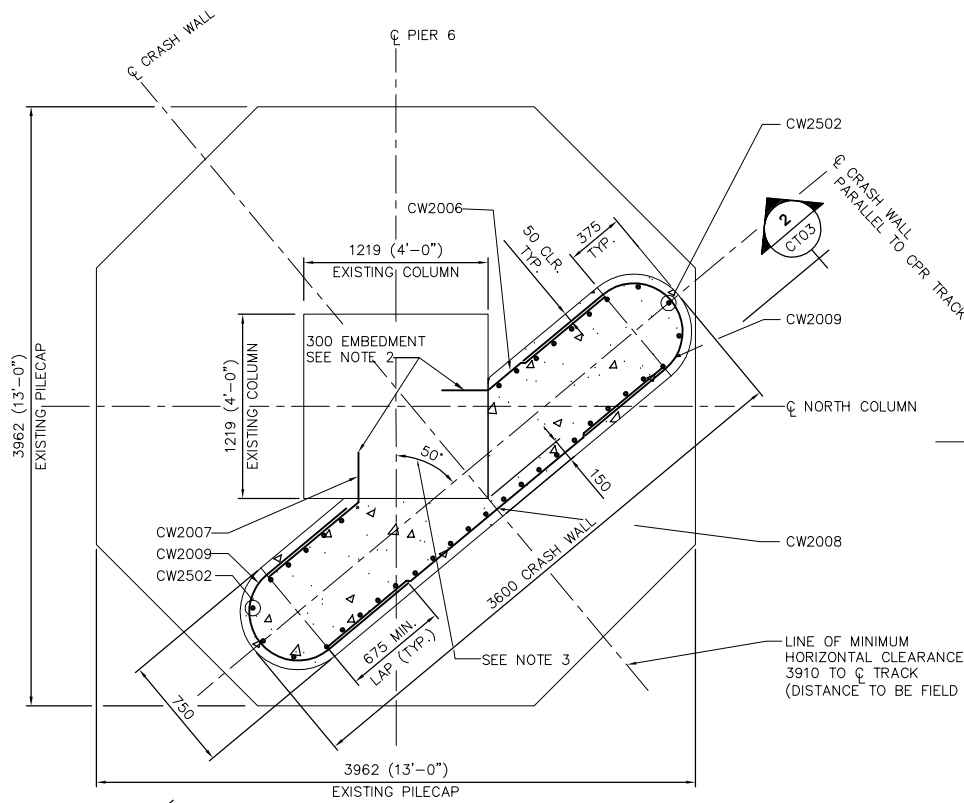
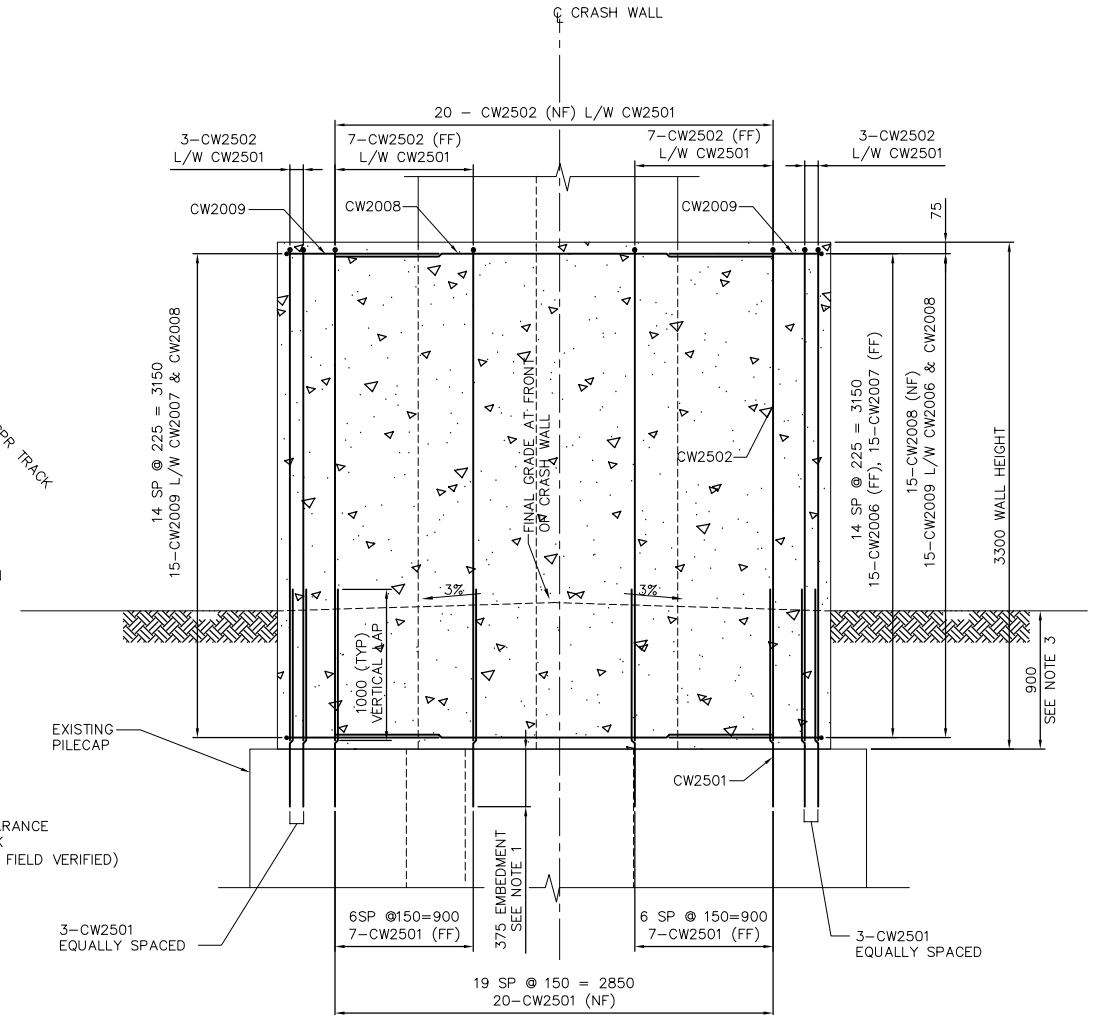


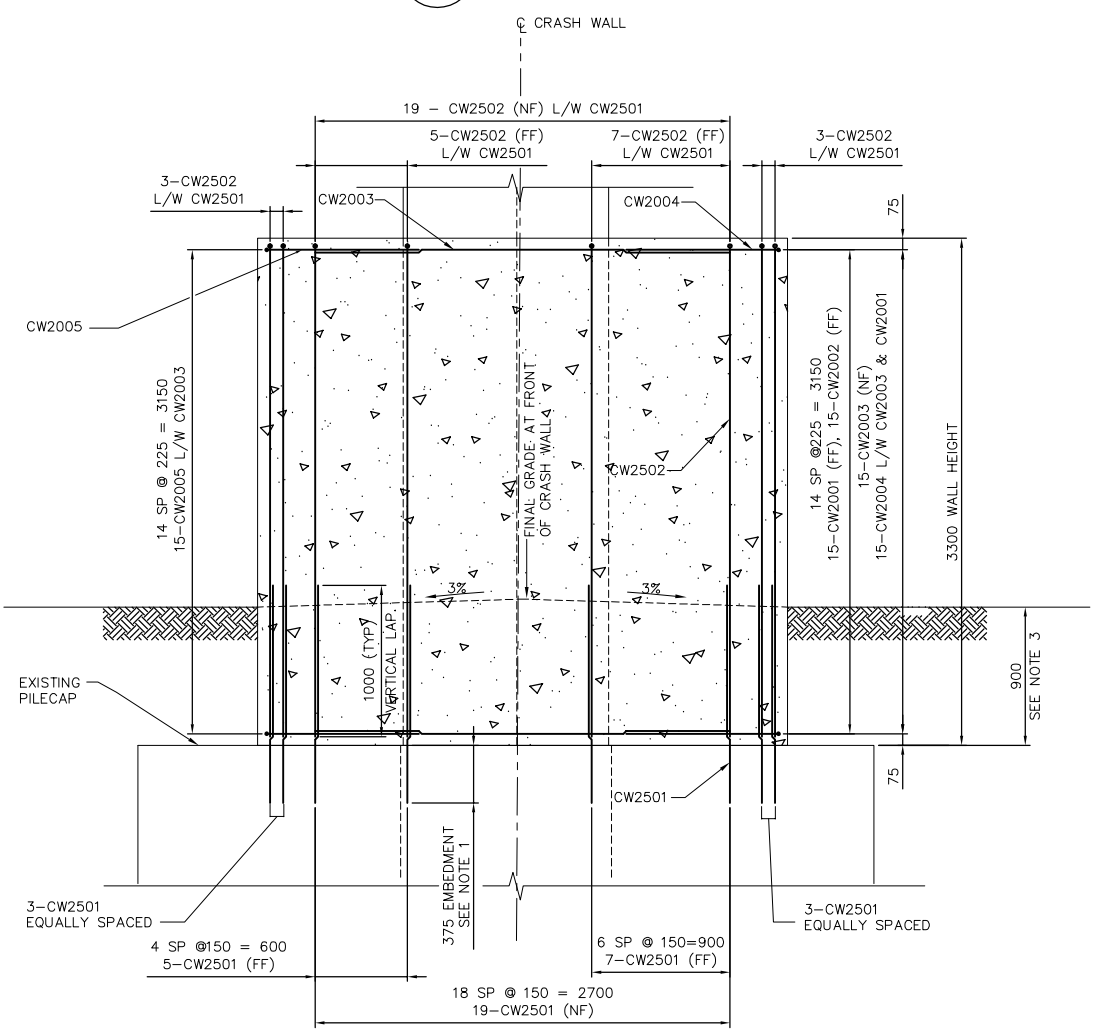
A DETAIL
CT02 SCALE 1:25



B DETAIL
CT02 SCALE 1:25



2 SECTION
CT03 SCALE 1:25



1 SECTION
CT03 SCALE 1:25

REINFORCING SCHEDULE PIER 5 - NORTH COLUMN

BAR MARK	BAR SIZE	NUMBER OF BARS	BAR LENGTH (mm)	BAR MASS (kg)
CW2001	20M	15	1000	35
CW2002	20M	15	1275	45
CW2003	20M	15	2700	95
CW2004	20M	15	2675	94
CW2005	20M	15	2225	78
CW2501	25M	37	1450	210
CW2502	25M	37	3600	522
TOTAL BAR MASS =				1079 kg
CONCRETE VOLUME =				7.51m³

REINFORCING SCHEDULE PIER 6 - NORTH COLUMN

BAR MARK	BAR SIZE	NUMBER OF BARS	BAR LENGTH (mm)	BAR MASS (kg)
CW2006	20M	15	1300	46
CW2007	20M	15	1050	37
CW2008	20M	15	2850	101
CW2009	20M	30	2375	168
CW2501	25M	40	1450	227
CW2502	25M	40	3600	564
TOTAL BAR MASS =				1143 kg
CONCRETE VOLUME =				7.66m³

NOTES:

- DRILL AND ANCHOR REINFORCING STEEL BARS TO EXISTING PILECAP USING EPOXY ADHESIVE, SEE SPECIFICATIONS.
- DRILL AND ANCHOR REINFORCING STEEL BARS TO EXISTING COLUMN USING EPOXY ADHESIVE, SEE SPECIFICATIONS.
- TO BE FIELD VERIFIED.

LEGENDS:
FF - FAR FACE
NF - NEAR FACE
EF - EACH FACE
L/W - LAP WITH

HALF-SIZE REDUCTION

APECA
Certificate of Authorization
Earth Tech Canada Inc.
No. 730 Expiry: April 30, 2007

EarthTech A Tyco International Ltd. Company	
DESIGNED BY: AP	CHECKED BY: JEB
DRAWN BY: LD	APPROVED BY:
HOR. SCALE: AS NOTED	RELEASED FOR CONSTRUCTION BY: B. NEIRINCK, P.Eng.
VERTICAL: AS NOTED	
00 ISSUED FOR CONSTRUCTION 06/08/15 JB	DATE 2006/04/12 DATE 2006/08/15
NO. REVISIONS	DATE BY

ENGINEER'S SEAL
PROVINCE OF MANITOBA
ORIGINAL SIGNED BY
POCHANART
15/08/06
REGISTERED PROFESSIONAL ENGINEER
CONSULTANT DRAWING NO. CT-03

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SAFETY IMPROVEMENTS AT THE NAIRN AVENUE OVERPASS

BID OPPORTUNITY 281-2006
SHEET 3 OF 4
CITY DRAWING NUMBER **B121-06-03**

CRASH WALL DETAILS AND SCHEDULES PIER 5 AND PIER 6 NORTH COLUMNS