

GENERAL NOTES

1. READ THE CIVIL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE CONSTRUCTION AND REPORT DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
3. THE DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
4. NOTIFY THE DEPARTMENTAL REPRESENTATIVE 24 HOURS IN ADVANCE FOR SITE REVIEW.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. CONSTRUCTION METHODS REQUIRING TEMPORARY SHORING OR BRACING SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER, REGISTERED IN THE PROVINCE OF ALBERTA TO PERFORM AND TAKE RESPONSIBILITY FOR ANY SHORING OR OTHER DESIGNS REQUIRED TO COMPLETE THE CONSTRUCTION.
7. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND SERVICES PRIOR TO COMMENCING ANY EXCAVATIONS AND BE RESPONSIBLE FOR DISRUPTIONS. CONTRACTOR TO COORDINATE ALL PLANNED SITE SERVICE DISRUPTIONS WITH THE SITE PWGSC PROJECT MANAGER.
8. IF NO DATES ARE GIVEN FOR STANDARDS REFERENCED, USE LATEST EDITION.
9. CONTRACTOR IS ADVISED THAT A MDS CABLE IS BURIED APPROXIMATELY 200mm–250mm BELOW GRADE BETWEEN THE PERIMETER FENCES. THE CONTRACTOR IS NOT PERMITTED TO DRIVE HEAVY EQUIPMENT/VEHICLES BETWEEN THE FENCES. CONTRACTOR IS LIABLE FOR COSTS AND REPAIRS OF ALL DAMAGE TO THIS CABLE. CROSSING THIS SPACE WITH HEAVY EQUIPMENT IS PERMITTED ONLY WHEN SURFACE PROTECTION IS PROVIDED BY WAY OF PLYWOOD SHEETS OR OTHER ACCEPTABLE SOLID MATERIAL. SEE ALSO SPECIFICATIONS SECTION 01 47 19.
10. REFER TO 01 14 00 FOR CONSTRUCTION SCHEDULE.
11. CONTRACTOR IS ADVISED THAT AN FDS CABLE IS TIED DIRECTLY TO THE INTERIOR FENCE AND CARE SHOULD BE TAKEN TO REMOVE AND REINSTALL THIS CABLE WHEN WORK IS BEING DONE TO THE FENCE. THE CABLE SHOULD NOT BE CUT. A FULL MDS AND FDS TEST OF THE PERIMETER SHOULD BE COMPLETED AS A FINAL ACCEPTANCE OF THE WORK PERFORMED TO ENSURE INTEGRITY OF THE PERIMETER HAS NOT BEEN COMPROMISED.

CONCERTINA WIRE NOTES

(SEE ALSO SPECIFICATION SECTION 32 31 13)

1. BARBED TAPE CONCERTINA (B.T.C.) SHALL BE GALVANIZED TAPE 20x0.5mm CLENCHED AROUND A 2.5mm DIAMETER SPRING STEEL GALVANIZED CORE WIRE TO FORM A CONCERTINA COIL WITH A NOMINAL EXTERIOR COILED DIAMETER OF 710mm.
2. THE CONCERTINA SHALL BE FORMED BY CLIPPING ADJACENT LOOPS OF SINGLE HELICAL COILS TOGETHER AT A MINIMUM OF THREE POINTS ON THE CIRCUMFERENCE. CLIPS SHALL BE GALVANIZED.
3. THE LOOP SPACING SHALL NOT EXCEED 230mm.
4. FOR CONCERTINA COIL SUPPORT AT FENCE TOP, TWO BARBED WIRES STRETCHED AND FIXED TO POST ARMS SHALL BE PROVIDED. BARBED WIRE SHALL CONSIST OF TWO STRANDS OF 12 GAUGE WIRE WITH 4–POINT BARBS AT 130mm SPACING, ALL GALVANIZED.
5. APPLICATION OF BARBED TAPE COILS SHALL BE AS FOLLOWS:

5.1. THE BARBED TAPE CONCERTINA IS TO BE SUPPORTED AND TIED AT 230mm SPACING ONTO EACH OF THE BARBED WIRE. ADDITIONAL COILS THAT ARE REQUIRED ON EXTERIOR FENCES ARE TO BE TIED.

5.2. A SECOND CONCERTINA WIRE ON THE INNER FENCE SHALL BE PROVIDED TO MATCH EXISTING; IT MUST NOT INTERFERE WITH THE FENCE DETECTION SYSTEM.
6. BARBED TAPE CONCERTINA SHALL NOT BE PAINTED.
7. CONCERTINA COILS ARE TO BE TURNED ONTO A SECONDARY INTERNAL FENCE FOR A DISTANCE OF 2.5m WHEN SUCH A FENCE MEETS THE PERIMETER FENCE.

CONCRETE

1. PROVIDE CONCRETE AND PERFORM WORK TO CSA A23.1–09. THE CONTRACTOR SHALL HAVE A COPY OF THIS STANDARD ON SITE AT ALL TIMES.
2. TEST CONCRETE IN ACCORDANCE WITH CSA A23.2–09.
3. CONCRETE REQUIREMENTS:

TYPE	LOCATION	CLASS OF EXPOSURE	CEMENT TYPE
1	PILES AND ANTI–TUNNELING WALLS	C–2	HS

REQUIREMENTS FOR SPECIFYING CONCRETE							
CLASS OF EXPOSURE	MAXIMUM WATER–TO–CEMENTING MATERIALS RATIO	MINIMUM SPECIFIED COMPRESSIVE STRENGTH (MPa) AND AGE (d) AT TEST	AIR CONTENT CATEGORY AS PER TABLE 4	CURING TYPE			CHLORIDE ION PENETRABILITY TEST REQUIREMENTS AND AGE AT TEST
				NORMAL CEMENT	HVSCM 1	HVSCM 2	
C–2 OR A–2	0.45	32 AT 28 d	1	2	2	2	



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C	ISSUED FOR ADDENDUM 1	2015/01/09
B	ISSUED FOR TENDER	2014/11/28
A	ISSUED FOR 90% REVIEW	2014/10/22
Revision/ Révision	Description/Description	Date/Date

Client/client

Public Works and Government Services Canada

Correctional Services Canada

Project title/Titre du projet

SECURITY AND DEMARCATION
FENCE REPAIR-
DRUMHELLER INSTITUTION

Approved by/Approuvé par
SL

Designed by/Concept par
CMP

Drawn by/Dessiné par
LKM

PWGSC Project Manager/Administrateur de Projets TPSGC
SL

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC

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Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.049481.001	D-C01 1 OF 14	C

CONCRETE (CONTINUED)

- 4. SPECIFIED SLUMPS ARE PRIOR TO THE ADDITION OF ANY APPROVED PLASTICIZING ADMIXTURE. WHEN CONCRETE IS PLACED BY PUMPING, THE LISTED SLUMPS SHALL BE AT DISCHARGE.
- 5. ALL CONCRETE SHALL BE NORMAL WEIGHT 2400 kg/m³ UNLESS NOTED.
- 6. PROVIDE 20mm CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
- 7. SUBMIT SHOP DRAWINGS TO THE DEPARMENTAL REPRESENTATIVE FOR REVIEW BY THE ENGINEER FOR CONCRETE MIX DESIGN FOR PILES AND ANTI-TUNNELLING WALLS.

CONCRETE ACCESSORIES

- 1. FOAM PLASTIC INSULATION BOARD: 25mm THICK FLEXIBLE INSULATION BOARD, STYROFOAM BRAND ROOFMATE (tm) BY DOW CHEMICALS LTD. INSULATION OR APPROVED EQUIVALENT.
- 2. EPOXY ADHESIVE AND CRACK FILLER: SIKA EVERSET TYPE II (tm) OR APPROVED EQUIVALENT.

NOTES:

WORK TO BE COMPLETED AS DESCRIBED BELOW IN CURRENT YEAR. REFER TO DRAWINGS D-C05 THROUGH D-C09 FOR SITE LOCATION OF REPAIRS.

CHAIN LINK FENCING AND TIE REPAIRS

NOTE 1: REVIEW SITE TO LOCATE ALL ALUMINUM FENCE TIES.

REMOVE AND REPLACE ALL ALUMINUM TIES WITH 9ga GALVANIZED STEEL TIES. CONTRACTOR TO INCLUDE PRICE/QUOTATION FOR REPLACEMENT OF 6250 TIES, WITH UNIT PRICE PER 50 TIES.

NOTE 2: LOCATE AREAS OF THE INNER AND OUTER PERIMETER FENCE WHERE THE PANELS OF FENCE FABRIC HAVE BEEN INSTALLED IN TWO 1800mm HIGH SHEETS. ENTIRE PERIMETER FENCE (3400m) IS AFFECTED.

CONTRACTOR TO INSPECT FENCES DURING COURSE OF WORK, AND INSTALL NEW STAINLESS STEEL HOG RINGS AT 300mm O/C TO JOIN THE UPPER AND LOWER PANELS OF FABRIC. FOR PRICING PURPOSES PROVIDE COST FOR 500 NEW HOG RINGS.

- NOTE 3: LOCATE THE AREA WEST OF BUILDING 19 WHERE THE BOTTOM PANELS OF WIRE FABRIC HAVE BEEN DAMAGED. REFER TO DRAWING D-C08 FOR 2 LOCATIONS.
- REMOVE AND REPLACE THE LOWER 1800mm HIGH x 12m LENGTH DAMAGED PANELS OF FABRIC WITH NEW 6ga. STEEL GALVANIZED FABRIC.
- ATTACH THE LOWER PANEL OF FABRIC TO THE UPPER PANEL AND HORIZONTAL RAILS WITH STAINLESS STEEL HOG RINGS AT 300mm O/C.

CONCERTINA AND BARBED WIRE REPAIRS

- NOTE 4: LOCATE THE NINE CONTROL ARMS ON THE SOUTH INTERIOR PERIMETER FENCE WHICH HAVE BENT OR BROKEN. REFER TO DRAWING D-C07 FOR LOCATION.
- REMOVE DAMAGED CONTROL ARMS. INSTALL NEW CONTROL ARMS AS SHOWN ON DETAIL 3/D-C11.
- NOTE 5: LOCATE THE BARBED WIRE BETWEEN BUILDINGS B11 AND B20 WHICH HAS BECOME SLACK. REFER TO DRAWING D-C07 AND D-C06 FOR LOCATION OF 52m LENGTH.
- RE-TENSION BARBED WIRE.
- NOTE 6: THE VOIDS IN THE PRECAST 'T' ROOF PANELS AT THE FRONT ENTRY OF BUILDING B01 DO NOT HAVE SECURITY BARRIERS IN PLACE. REFER TO DRAWING D-C09 FOR LOCATION. (VOID AREA TO BE FILLED: STARTING AT 4.3m HIGH, 1.2m x 2m)
- INSTALL CONCERTINA WIRE IN VOIDS BETWEEN THE LOWER AND UPPER ROOFS. REFER TO DETAIL 3/D-C11 FOR CONCERTINA WIRE REQUIREMENTS.



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PROJECT NOTES

Sheet 1

CURRENT YEAR

Project No./No. du projet

R.049481.001

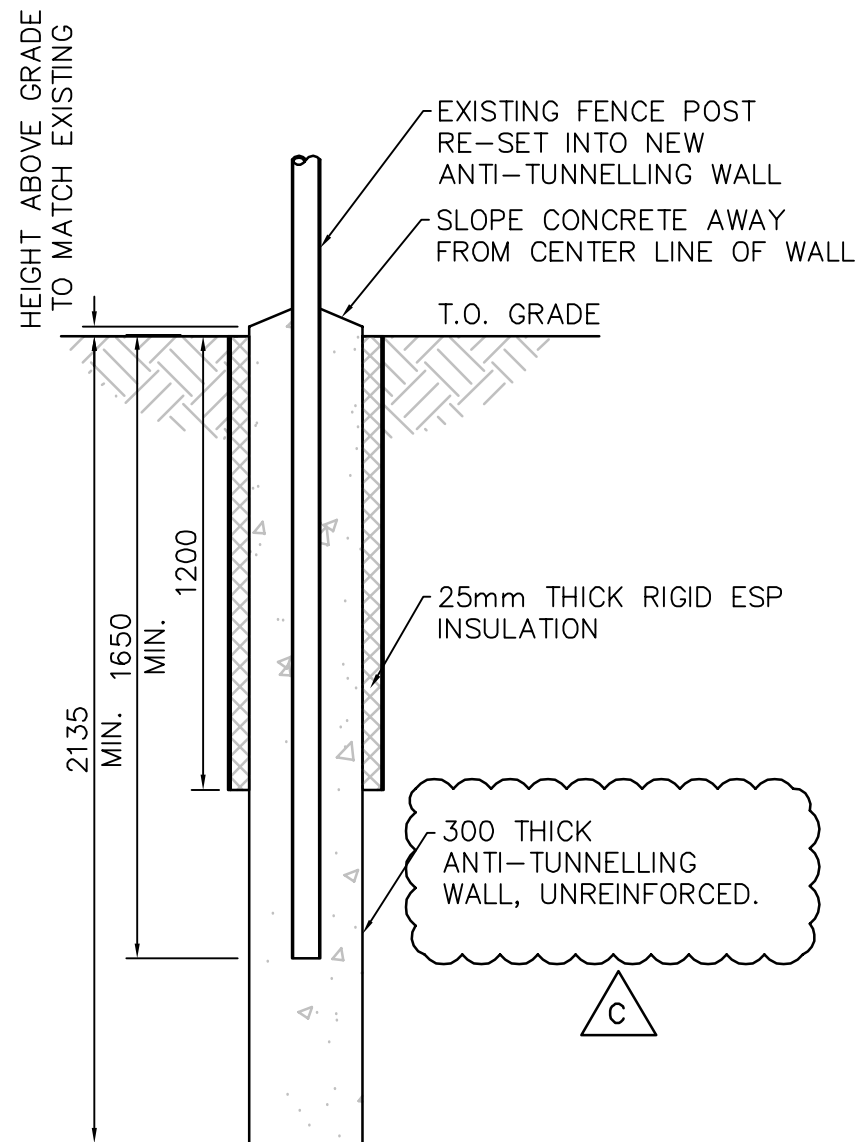
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D-C02

2 OF 14

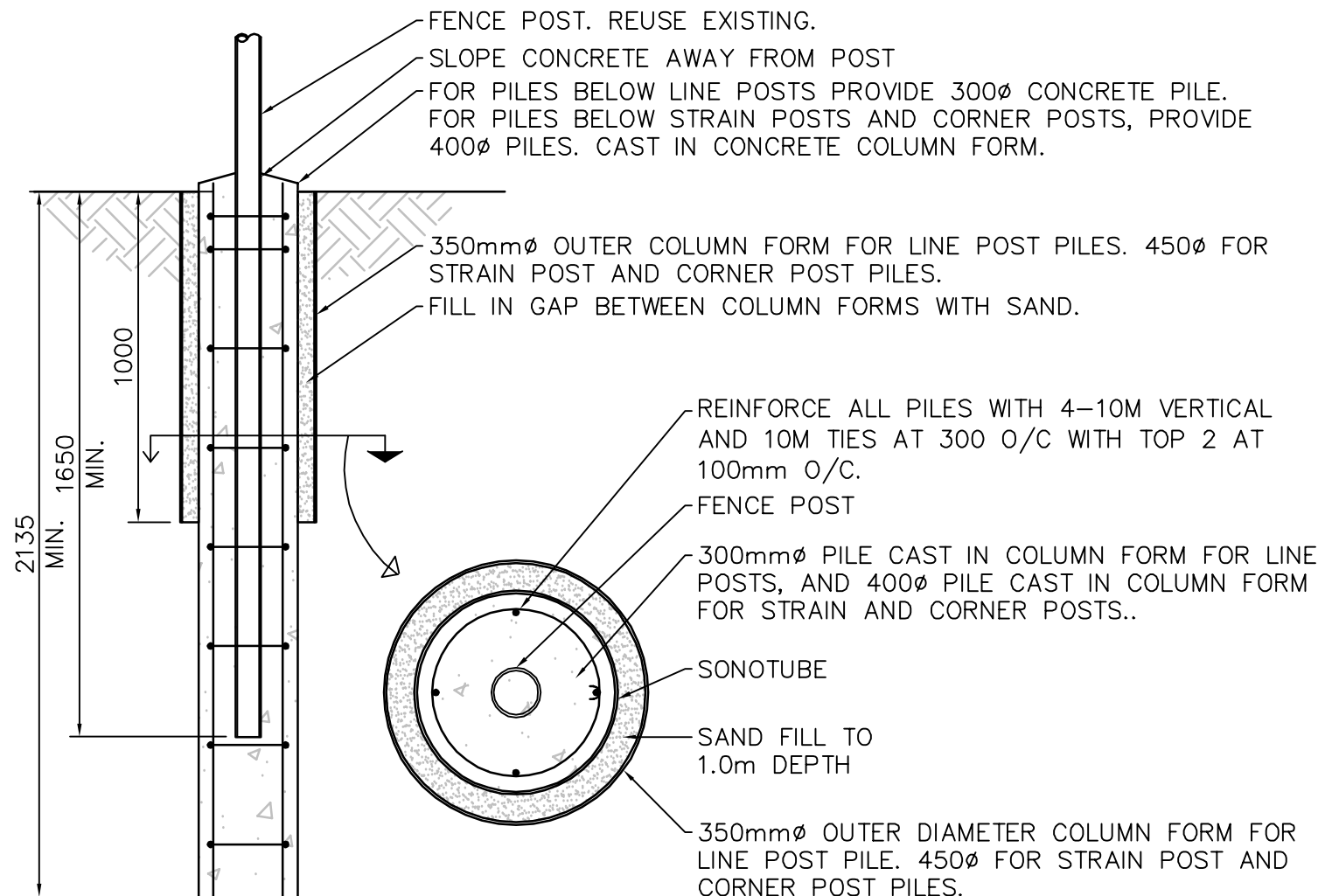
Revision no./
La Révision no.

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SECTION: PERIMETER FENCE POST
FOUNDED IN ANTI-TUNNELLING WALL

SCALE 1: 20



SECTION: PERIMETER POST FOUNDED
IN CONCRETE PILE

SCALE 1: 20

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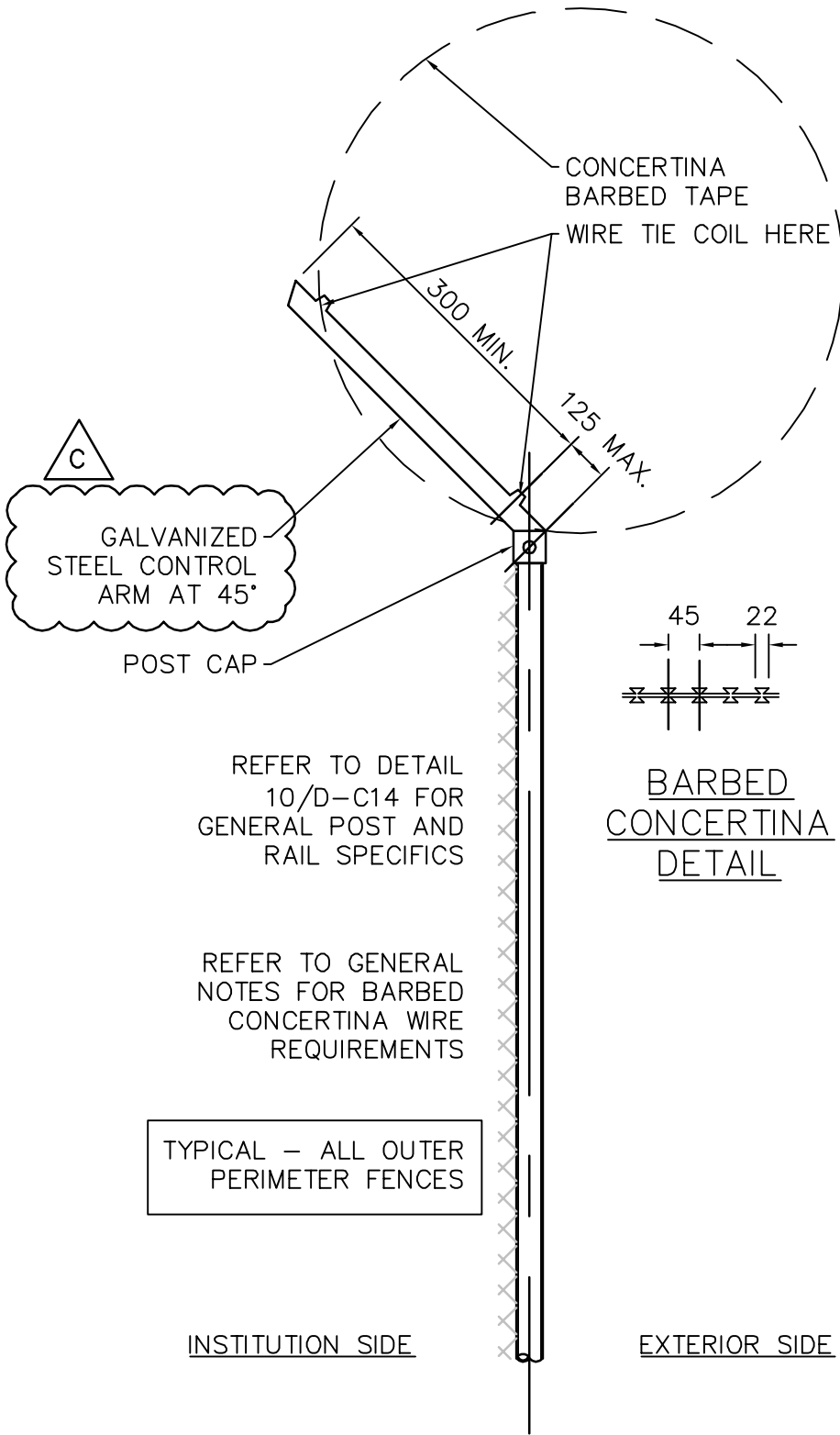
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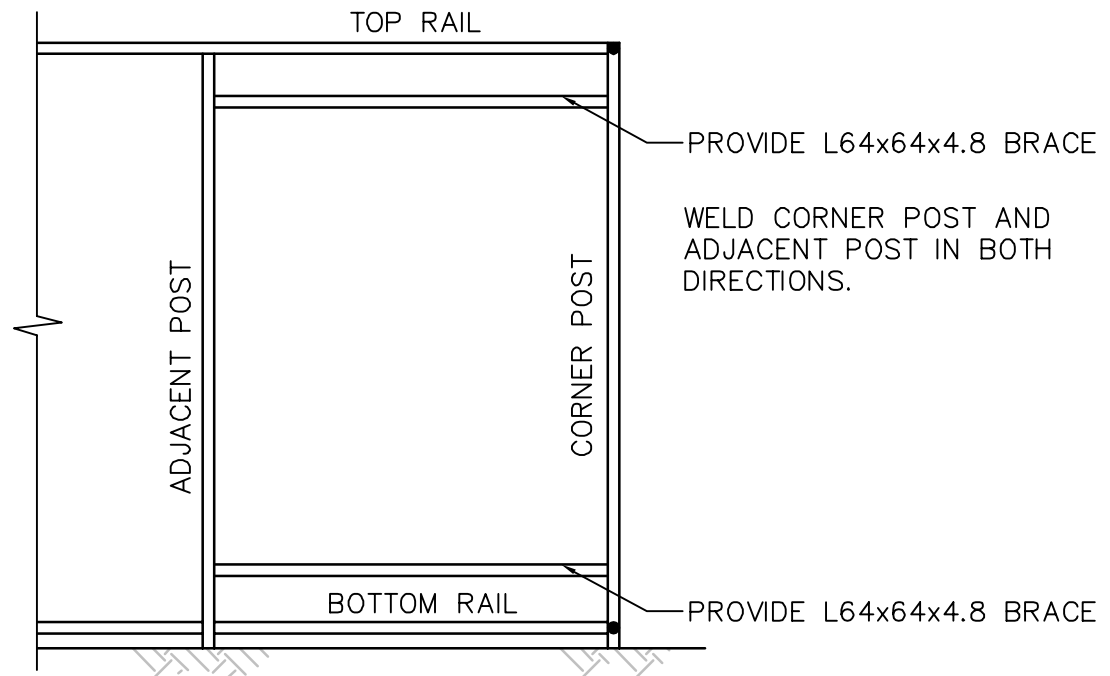
DETAILS
Sheet 1

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.049481.001	D-C10 10 OF 14	C



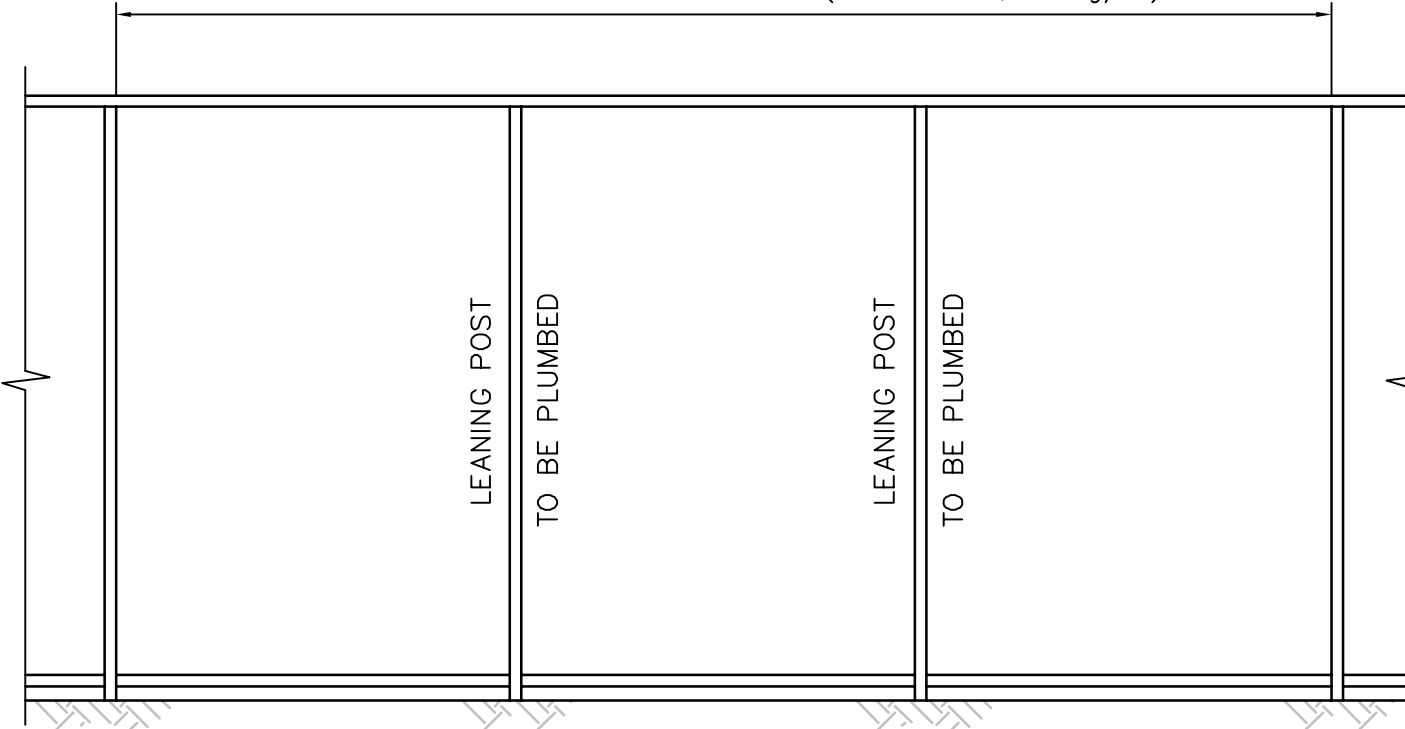
CONCERTINA WIRE INSTALLATION:
TYPICAL ON ALL OUTER
PERIMETER FENCES

3 SECTION
SCALE 1:20
NOTES 4, 6, 7, 10*, 13*




4 ELEVATION
N.T.S.
NOTE 14*

REMOVE EXISTING TOP RAIL TO EXTENTS NOTED.
REPLACE WITH NEW DN65 STD PIPE (73mm O.D., 8.6kg/m).



5 ELEVATION
N.T.S.
NOTE 15*




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REAL PROPERTY SERVICES
Western Region

SERVICES IMMOBILIERS
Région de l'ouest



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DETAILS
Sheet 2

Project No./No. du projet R.049481.001	Sheet/Feuille D-C11 11 OF 14	Revision no./ La Révision no. C
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