



PARKS CANADA
ROUGE NATIONAL URBAN PARK

10725 Reesor Rd, Markham, ON L6B 1A8



Stamp

GENERAL NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1 TO S10.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.
3. ALL STEEL MEMBERS, CONNECTION AND BOLTS, EXCEPT STAINLESS STEEL, SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

HELICAL PILE NOTES

1. VERTICAL PILES SHALL BE ABLE TO CARRY 35 kN VERTICAL FORCE AND 5 kN LATERAL FORCE IN ULS.
2. VERTICAL PILES SHALL BE TESTED FOR 60 kN.
3. HELICAL PILES AND PILE CAPS TO BE DESIGNED BY THE CONTRACTOR.
4. AT LEAST 2.5% OF HELICAL PILES SHALL BE MINIMUM HSS 141x7mm.
5. ALL HELICAL PILES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH CSA G164 WITH A MINIMUM COATING OF 600 G/M².
6. CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING HANDLING, TRANSPORTATION AND ERECTION.
7. COMPLETE AS-BUILT SURVEY AFTER PILE INSTALLATION IS COMPLETE. PROVIDE FRP FABRICATOR WITH AS-BUILT SURVEY INFORMATION PRIOR TO FABRICATION OF FIBREGLASS BEAMS AND STRINGERS.

CONCRETE NOTES

1. PERFORM CONCRETE WORK IN ACCORDANCE WITH CSA A23.1-09 AND TESTING TO CSA A23.2-09.
2. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
 - 2.1 STRENGTH AT 56 DAYS 35 MPa, CLASS C-1
 - 2.2 MAXIMUM COARSE AGGREGATE 19mm
 - 2.3 SLUMP 50-75mm
 - 2.4 ENTRAINED AIR 5-8%
3. UNLESS OTHERWISE NOTED, THE CONCRETE COVER TO REINFORCING STEEL TO BE 75mm
4. SUBMIT CONCRETE MIX DESIGN PRIOR TO PLACING ANY CONCRETE
5. FINISHING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1-09.
6. CONCRETE FORMWORK AND FALSEWORK MATERIALS SHALL CONFIRM TO CSA A23.1-09. USE ONLY NEW FORMWORK FOR ALL EXPOSED SURFACES.
7. THE CONTRACTOR SHALL RETAIN A MATERIAL TESTING COMPANY TO UNDERTAKE FIELD SLUMP AND AIR TESTS FOR EACH CONCRETE PLACEMENT. INTERVALS OF CONCRETE TESTING AS PER CAN/CSA-A23.1 AND CAN/CSA-A23.2. THE MATERIAL TESTING COMPANY SHALL ALSO TAKE FIELD CYLINDERS TO DETERMINE THE CONCRETE COMPRESSIVE STRENGTH AT 7, 28, AND 56 DAYS AT A MINIMUM.
8. INSPECTION AND TESTING OF CONCRETE SHALL BE IN ACCORDANCE WITH CAN/CSA-A23.1 AND CAN/CSA-A23.2.

WOOD NOTES

1. ALL WOODEN MEMBERS SHALL BE SS GRADE.
2. ALL BOARDWALK SURFACES SHALL BE ROUGH SAWN ONTARIO WHITE CEDAR.
3. ALL RAILINGS SHALL BE ROUGH SAWN ONTARIO WHITE CEDAR.
4. TOP RAILINGS SHALL BE SANDED.
5. ALL ROUGH SAWN LUMBER TO BE FULL DIMENSIONAL SIZES.
6. NO DISCREPANCY IN THE THICKNESS OF DECK BOARDS.

STAINLESS STEEL NOTES

1. TYPE 316 STAINLESS STEEL SHALL BE USED.

FIBREGLASS NOTES

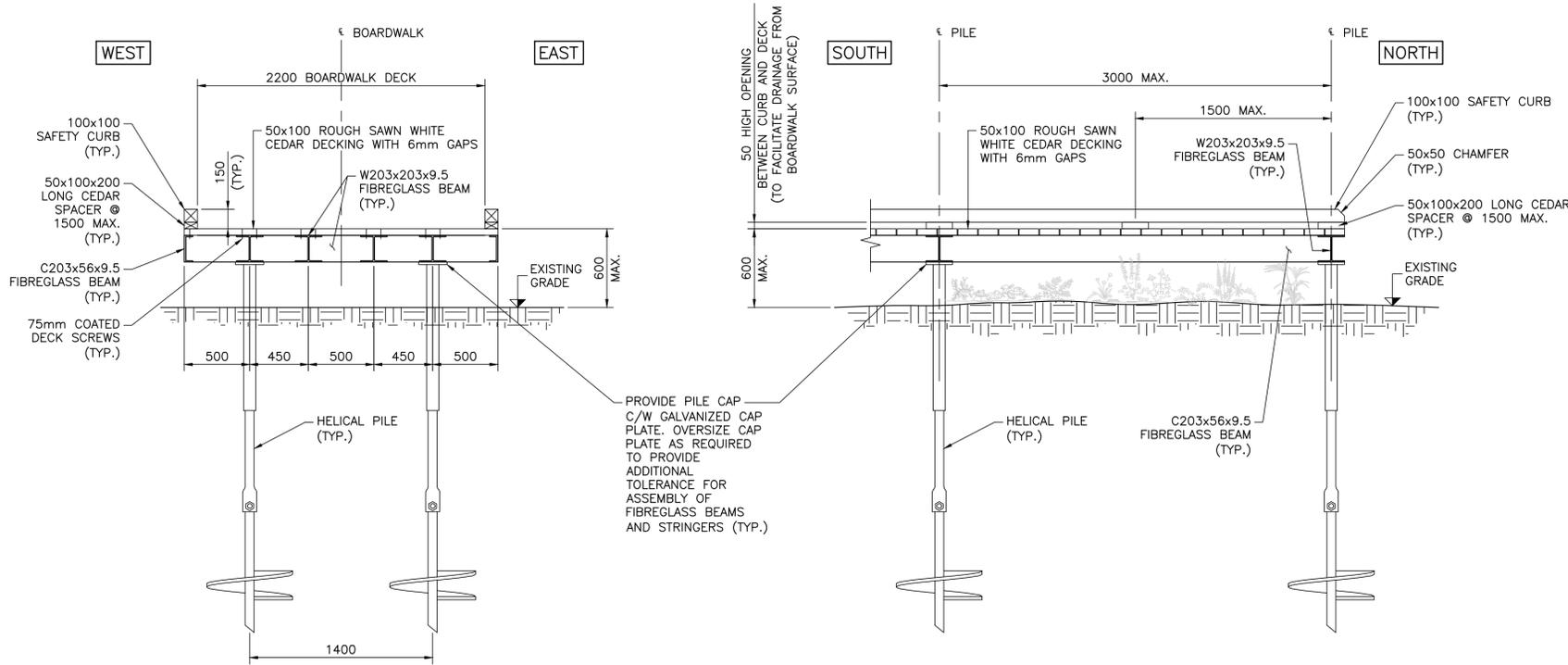
1. PROVIDE STAMPED SHOP DRAWINGS.
2. CONNECTION DETAILS SHALL BE DESIGNED BY FABRICATOR. ALL NON-FIBREGLASS PARTS SHALL BE GALVANIZED STEEL.
3. FIBREGLASS BEAM AND STRINGER LAYOUT SHALL BE BASED ON AS-BUILT LOCATIONS OF HELICAL PILES

ARMOURSTONE NOTES

1. 1000mm (HT.) x 600mm (W) x 1000mm (L) SQUARE CUT NATURAL QUARRIED LIMESTONE ARMOURSTONE, LIGHT GREY/BUFF/BROWN COLOUR, AS SUPPLIED BY OWEN SOUND LEDGEROCK OR APPROVED EQUAL.
2. ALL EXPOSED SIDES TO BE NATURAL SPLIT FACED. ALL ABUTTING SIDES TO BE NATURAL SPLIT FACED, TOP TO BE SAWCUT/GUILLOTINED, ±6mm TOLERANCE TO PREVENT TRIP HAZARDS, WITH FLAME FINISH. SET TOP TO BE FLUSH WITH TOP OF TIMBER DECK.
3. JOINTS/GAPS NOT TO EXCEED 12mm.
4. FINAL MATERIAL TO BE APPROVED AT THE SOURCE BY CONSULTANT AND PCA PRIOR TO INSTALLATION.
5. LOCATION TO BE STAKED OUT ON SITE FOR REVIEW AND APPROVAL BY PCA PRIOR TO INSTALLATION.

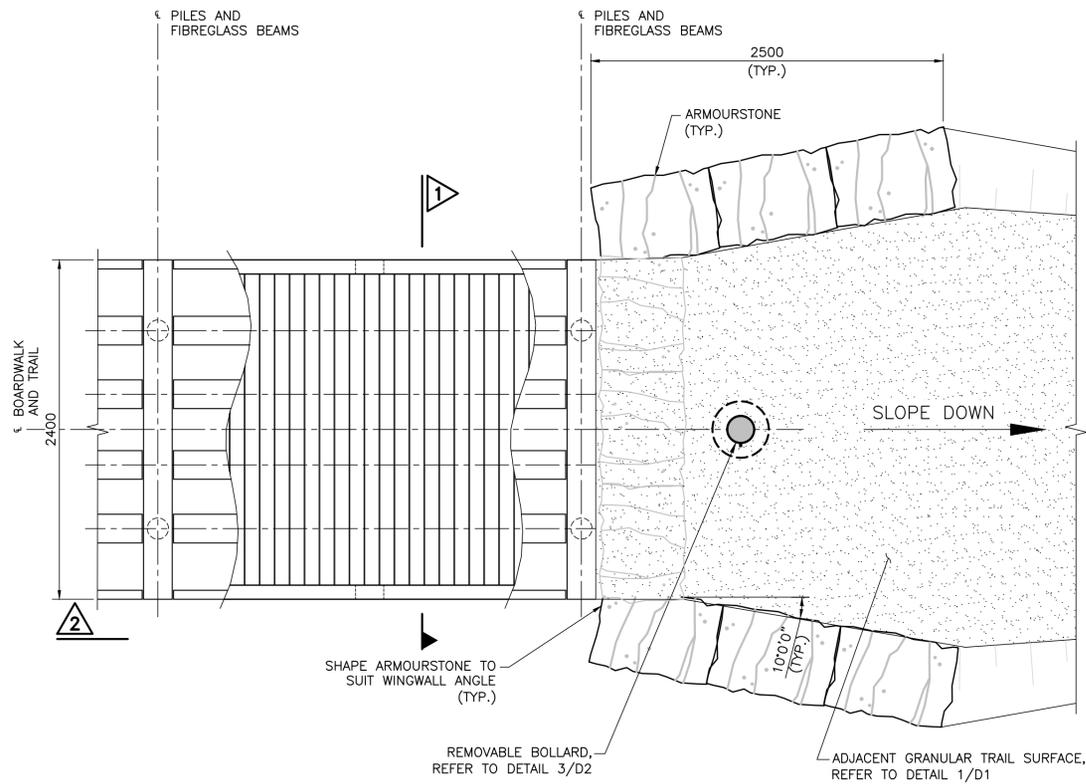
LIST OF STRUCTURAL DRAWINGS

- S1 GENERAL NOTES AND TYPICAL DETAILS
- S2 BOARDWALK DETAILS - BW1
- S3 BOARDWALK DETAILS - BW2
- S4 BOARDWALK DETAILS - BW4
- S5 STRUCTURE SUMMARY TABLE AND BEAM CONNECTION DETAIL
- S6 STAIRCASE #1 LAYOUT & DETAILS
- S7 STAIRCASE #3 LAYOUT & DETAILS
- S8 STAIRCASE #4 LAYOUT & DETAILS
- S9 STAIRCASE #5 LAYOUT & DETAILS

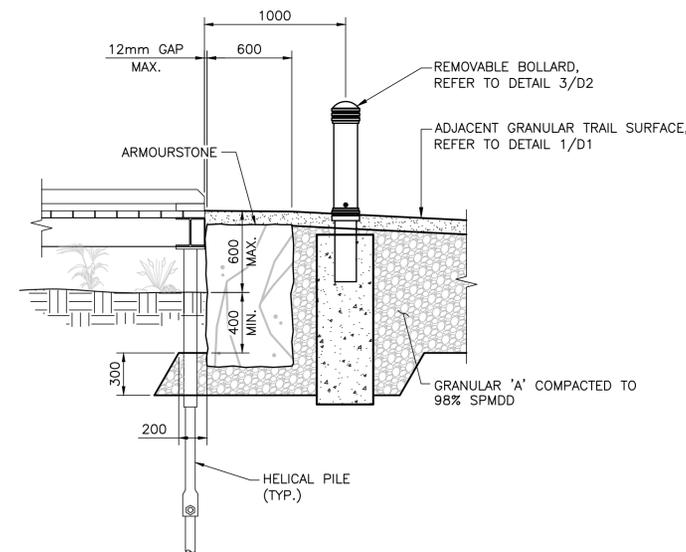


1 TYPICAL BOARDWALK SECTION
1:25

2 TYPICAL BOARDWALK ELEVATION
1:25



TYPICAL ARMOURSTONE AND BOLLARD PLAN AT BOARDWALK ENDS
1:25



TYPICAL ARMOURSTONE AND BOLLARD SECTION AT BOARDWALK ENDS
1:25

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS	DESCRIPTION	DATE
4	ISSUED FOR ADDENDUM #2	2021.03.01
3	ISSUED FOR TENDER SUBMISSION	2021.01.29
2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16

A	A
C	B/C

project title titre du projet

NORTH EAST TRAIL

drawing title titre du dessin

BOARDWALK GENERAL NOTES AND TYPICAL DETAILS

designed by M. J. HAYMAN, P.ENG. conçu par

drawn by R. J. DUCHESNE dessiné par

approved by approuvé par

Parks Canada Project Manager Administrateur de Projets Parcs Canada

scale AS SHOWN échelle sheet feuille

project no. 19-1500 projet no. **S1**

date date 41 OF 49