

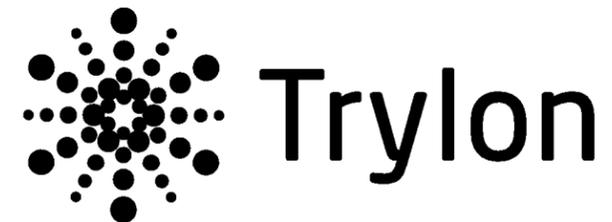
JOB DESCRIPTION: FOUNDATION DESIGN
SITE NAME: CORNWALL ISLAND

TRYLON JOB NO.: 147574
CUSTOMER: C.C.G.

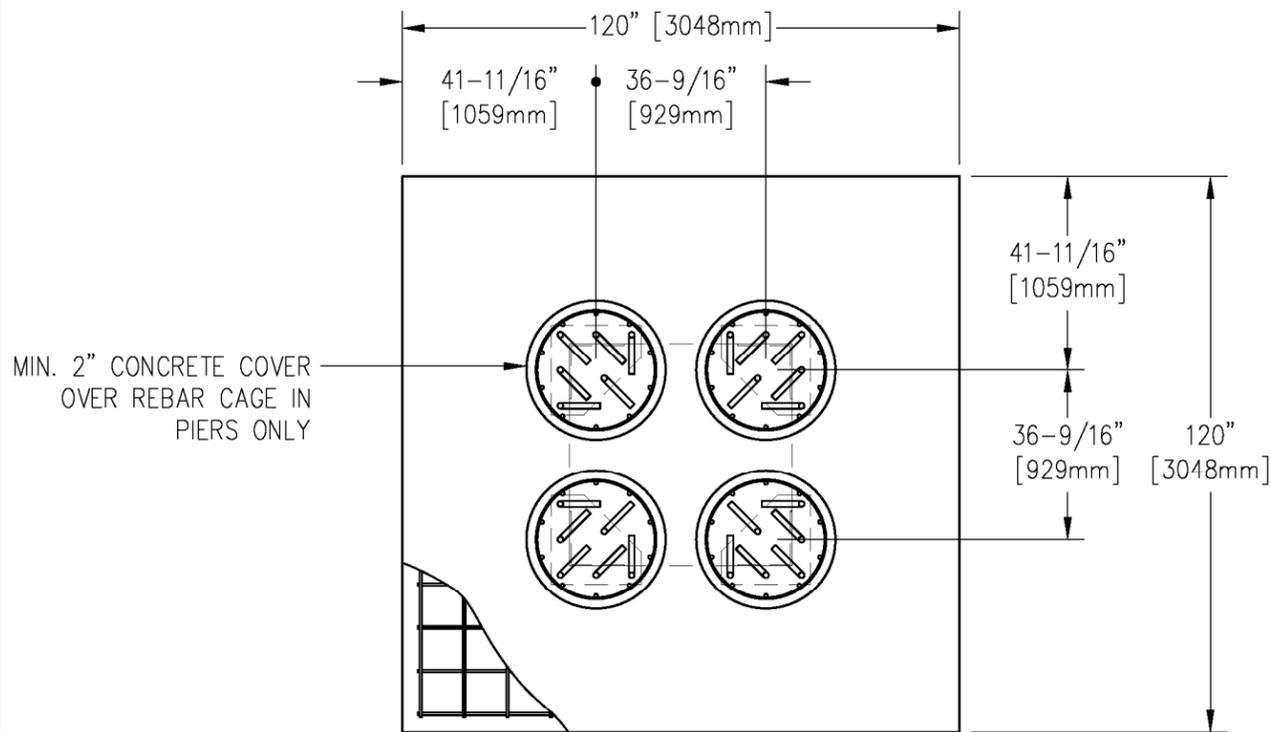
CIVIL DRAWINGS	
TRYLON DWG. NO.	DRAWING NAME
147574.963.0102	TITLE PAGE
147574.963.0601	FOUNDATION DETAILS
147574.963.0602	REBAR CHART
147574.963.0603	FOUNDATION NOTES

NOTE: PROFESSIONAL ENGINEERING STAMP APPLIES
ONLY TO THE DRAWINGS INCLUDED HEREIN.

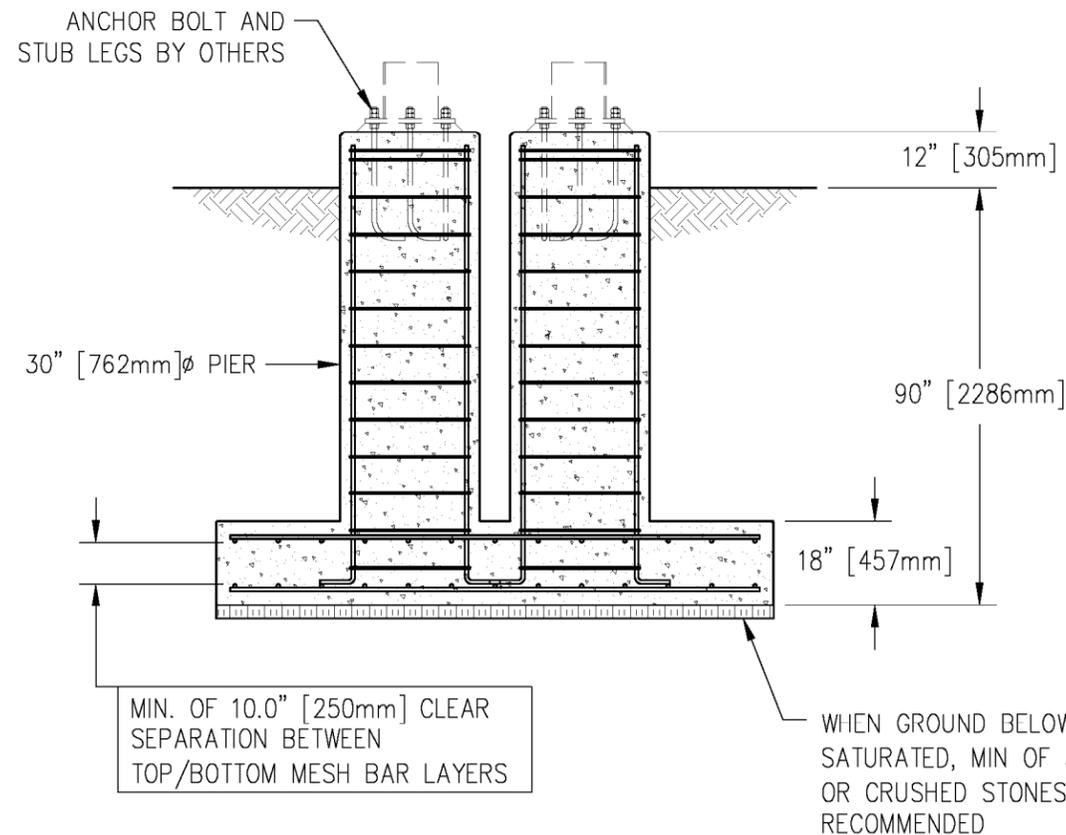
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IN CASE OF EMERGENCY CALL:
519-669-5421 (DAYS)
1-877-572-9995 (EVENINGS AND WEEKENDS)



FOUNDATION IS DESIGNED FOR THE FOLLOWING FACTORED LOADS:
 OTM = 282 kN-m
 SHEAR = 26 kN
 AXIAL = 95 kN



BASE FOUNDATION
(1) REQUIRED

PIER DETAILS (SEE NOTE #1)				PAD DETAILS			
QTY	SIZE	TYPE	SPACING	QTY	SIZE	TYPE	SPACING
10	20M	—	EQUAL	13	20M	—	*
2	10M	○	2"				
11	10M	○	8"				

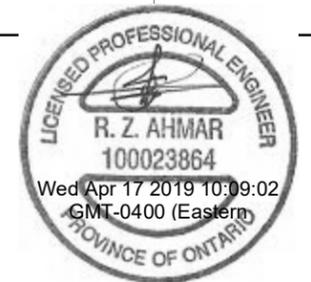
- NOTES:
- PIER RE-BAR QUANTITIES LISTED REPRESENTS THE QUANTITY FOR ONE PIER ONLY.
 - '*' - 52 BARS REQUIRED IN TOTAL, EQUALLY SPACED EACH WAY, TOP & BOTTOM, APPROXIMATE SPACING IS 9".
 - REFER TO REBAR DRAWING 147574.963.0602 FOR CUTTING LENGTHS AND FABRICATION DETAILS.

NOTES: 1) REFER TO DWG 0603 FOR FOUNDATION NOTES.

REV.	BY: REV.	BY: CHK.	DESCRIPTION	DATE
A	MAW	PS	ISSUE FOR CONSTRUCTION	17 APR 19

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER
0602	
0603	

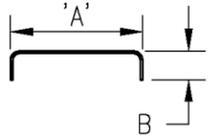
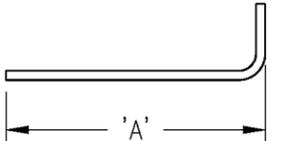
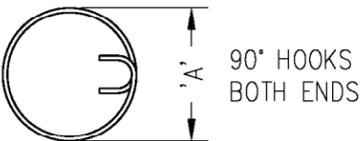
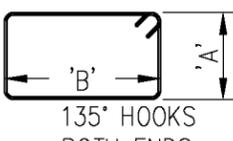


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DRAWING NO. 147574.963.0601

CUSTOMER: C.C.G.	SITE: CORNWALL ISLAND	SCALE: 40.000
DATE: 15 APR 19	BY: MAW	CHK: PS
APP: ZA		
TITLE: FOUNDATION DETAILS		

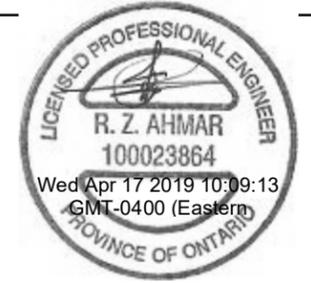
BAR LIST FOR REINFORCING STEEL

BAR LOCATION	BAR SIZE	TYPE	TOTAL LENGTH OF BAR (inch)	BENDING DIAGRAM		QTY. REQ'D	TOTAL BAR WT.	
				DIM. 'A'	DIM. 'B'			
		'C' SHAPE						
TOWER	20M	BENT	104-5/8"	94-1/2"		40	524	
TOWER	10M	TIE	88-1/8"	26"		52	255	
		STIRRUP						
TOWER	20M	STRAIGHT	114"			52	742	
		STRAIGHT						
		STRAIGHT						
		STRAIGHT						
SIZES & WEIGHTS		TOTAL BAR WEIGHT (lbs)					1521	
METRIC	WT. (Kg/M)							
10M	0.785							
15M	1.570							
20M	2.355							
25M	3.925							
30M	5.495							
35M	7.850							

REV.	BY: REV.	BY: CHK.	DESCRIPTION	DATE
A	MAW	PS	ISSUE FOR CONSTRUCTION	17 APR 19

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER



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Trylon

DRAWING NO. 147574.963.0602

CUSTOMER: C.C.G.	SITE: CORNWALL ISLAND	SCALE: 1.000
DATE: 15 APR 19	BY: MAW	CHK: PS
APP: ZA		

TITLE: REBAR CHART

NOTES: 1) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH CSA STANDARD G30.18-M92 GR 400.
2) REJECT BARS WITH KINKS OR BENDS NOT SHOWN ON THIS DRAWING.

FOUNDATION NOTES:

GENERAL:

- 1) THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH THE WORK.
- 2) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF CSA STANDARDS.
- 3) FOUNDATIONS DESIGNED IN ACCORDANCE WITH
COMPANY NAME: ALSTON ASSOCIATES
SOILS REPORT: 17-143
DATE: 15 NOV 2017
- 4) ALL GALVANIZED STEEL IN CONTACT WITH SOIL IS TO BE COATED WITH ROOF PATCH.

INSPECTION:

- 1) THE FOUNDATIONS AND ANCHORAGES SHALL BE INSPECTED AT ALL CRITICAL STAGES OF THE WORK BY AN ENGINEER OR A QUALIFIED PERSON REPORTING TO THE ENGINEER.

CONCRETE:

- 1) CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1, A23.2 AND A23.3.
- 2) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 30 MP_a.
- 3) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT. TOTAL AIR CONTENT TO BE 5% TO 7% AS SPECIFIED IN CSA STANDARD A23, FOR THE PARTICULAR SIZE OF AGGREGATE BEING USED. THE AIR ENTRAINING AGENT SHALL BE COMPATIBLE WITH THE WATER REDUCING AGENT.
- 4) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 19 mm.
- 5) THE USE OF CALCIUM CHLORIDE OR ACCELERATING ADMIXTURES IS PROHIBITED.
- 6) SLUMP SHALL BE 75 mm +/- 25 mm.
- 7) IF THE AIR TEMPERATURE IS 5 DEGREES C OR LESS, THE TEMPERATURE OF THE CONCRETE AT TIME OF PLACING, SHALL BE BETWEEN 15 AND 30 DEGREES C.
- 8) CHAMFER EXPOSED CORNERS OF CONCRETE (APPROX 20 mm).
- 9) PROVIDE EFFECTIVE MEANS OF MAINTAINING THE TEMPERATURE OF CONCRETE IN PLACE AT A MINIMUM OF 10 DEGREES C AND A MAXIMUM OF 30 DEGREES C FOR THREE DAYS AFTER PLACING. WHEN THE MEAN DAILY AIR TEMPERATURE IS LESS THAN 5 DEGREES C PROVIDE PROTECTION FOR NEWLY PLACED CONCRETE BY MEANS OF SUITABLE ENCLOSURES OR RAISED COVERINGS, HEAT AND INSULATION.
- 10) ALL GROUT SHALL BE NON-FERROUS AND NON SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 35 MP_a AT 28 DAYS, EDGES GROUT SHALL BE TAPERED OFF AT 45°.
- 11) ALL CONCRETE TO BE TYPE 20 PORTLAND CEMENT.

REINFORCEMENT:

- 1) CLEAN REINFORCEMENT OF ANY LOOSE SCALE, DIRT OR OTHER COATINGS WHICH WOULD DESTROY OR REDUCE BONDING. REJECT BARS WITH KINKS OR BENDS NOT SHOWN ON FOUNDATION DRAWINGS.
- 2) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 75 mm CLEAR CONCRETE COVER UNLESS OTHERWISE APPROVED BY TRYLON.
- 3) REINFORCING STEEL SHALL BE DEFORMED GR. 400 BARS CONFORMING WITH CSA STANDARD G30.18-09.

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 150 mm) AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.

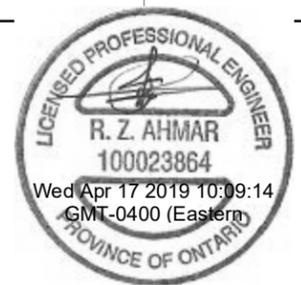
CSA STANDARDS:

- 1) FOUNDATIONS AND ANCHORS DESIGNED IN ACCORDANCE WITH CSA-S37-13.
- 2) REINFORCED CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CSA STANDARD A23.1, A23.2 AND A23.3.

REV.	BY: REV.	BY: CHK.	DESCRIPTION	DATE
A	MAW	PS	ISSUE FOR CONSTRUCTION	17 APR 19

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER



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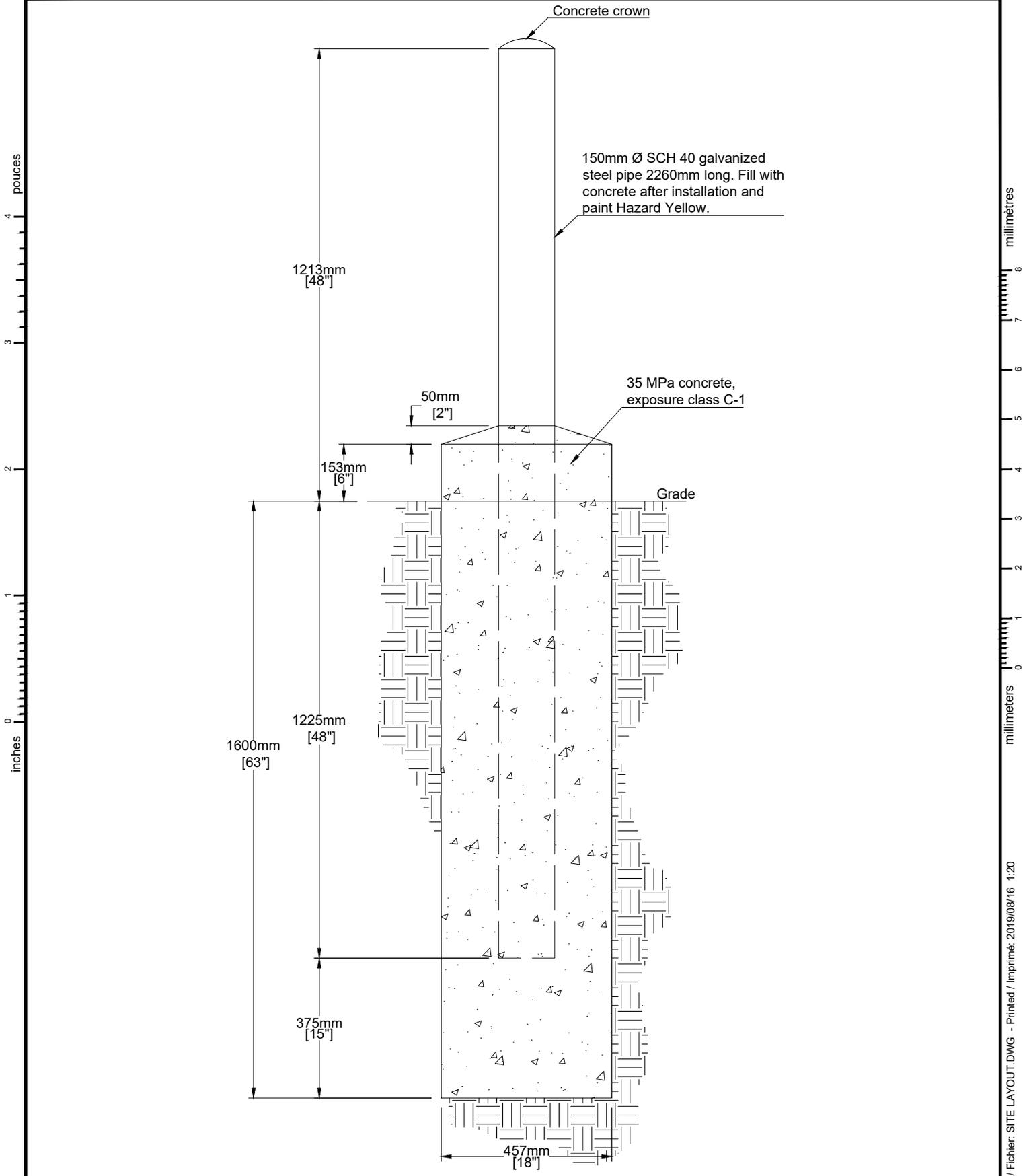


DRAWING NO.
147574.963.0603

CUSTOMER: C.C.G.	SITE: CORNWALL ISLAND	SCALE: 1.000
DATE: 15 APR 19	BY: MAW	CHK: PS
		APP: ZA

TITLE:
FOUNDATION NOTES

NOTES:



	Fisheries and Oceans Canada Canadian Coast Guard	Pêches et Océans Canada Garde côtière Canadienne
	CCG ref. no. - no. réf. GCC EWTM 8010-0165000	scale - échelle 75:1

Asset - Actif LL165 CORNWALL ISLAND REAR RANGE
Drawing - Dessin BOLLARDS

designed - conception LL	date 2019-08-15
approved - approuvé	date
drawing no. - no. dessin DWG No - No DESS	sheet-feuille 01/01
	rev 0