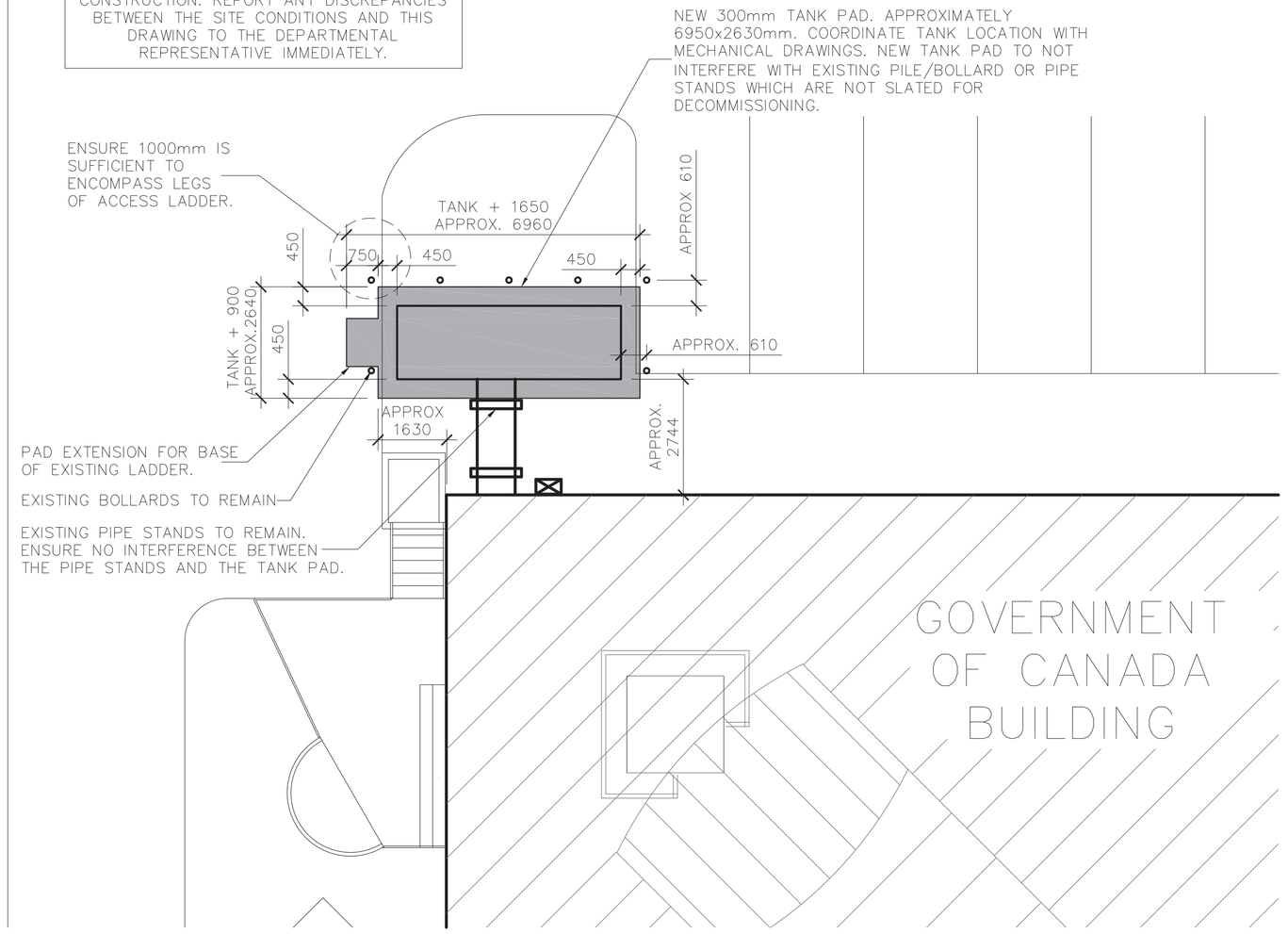
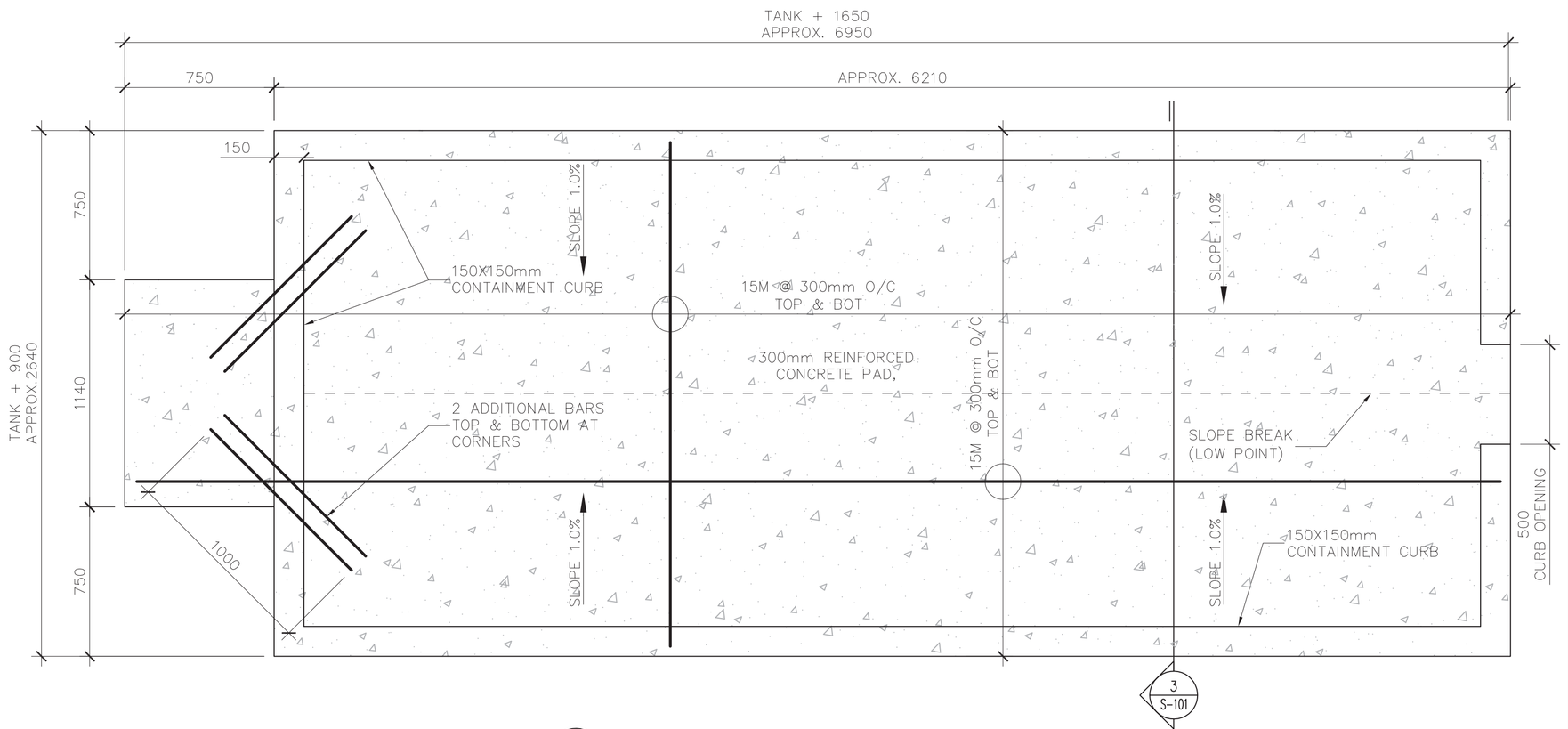
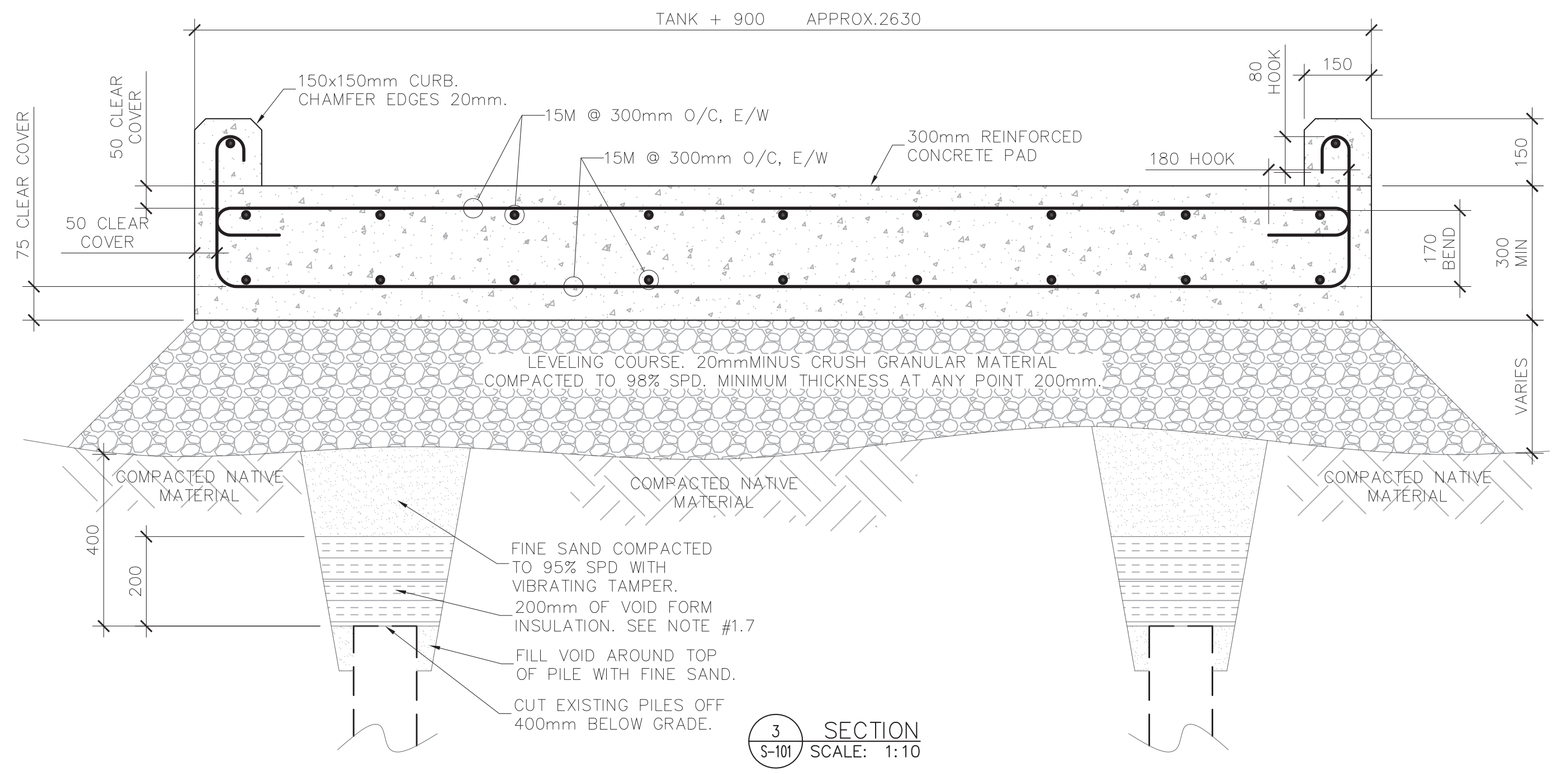
THE NEW TANK PAD SHOWN ON THIS DRAWING MUST BE CONSTRUCTED IN THE SPACE PROVIDED WITHIN THE BOLLARD PERIMETER. CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND DIMENSION PRIOR TO COMMENCING CONSTRUCTION. REPORT ANY DISCREPANCIES BETWEEN THE SITE CONDITIONS AND THIS DRAWING TO THE DEPARTMENTAL REPRESENTATIVE IMMEDIATELY.



1 S-101 SITE PLAN / NEW TANK PAD LOCATION
SCALE: 1:100



2 S-101 TANK PAD REINFORCEMENT PLAN
SCALE: 1:20



3 S-101 SECTION
SCALE: 1:10

DESIGN NOTES

1. GENERAL

1.1. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.

1.2. READ THESE DESIGN NOTES IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

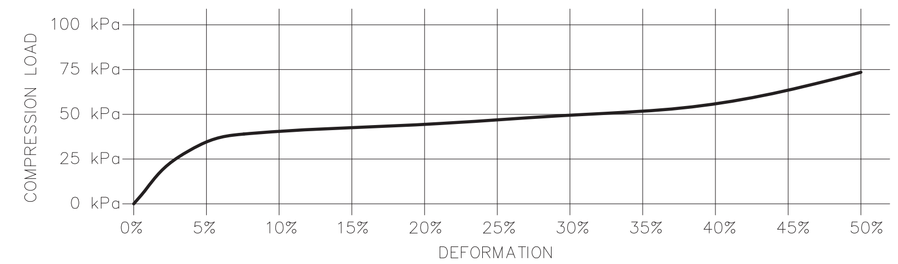
1.3. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

1.4. REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION BEFORE PROCEEDING.

1.5. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.

1.6. NOTIFY THE DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO ANY REQUIRED SITE REVIEWS.

1.7. ALL VOID FORM SHALL CONFORM TO THE FOLLOWING DEFORMATION CHARACTERISTICS:



2. DESIGN LOADS

2.1. CONSTRUCTION LOADS SHALL NOT EXCEED THE LOADS NOTED ON THE DRAWINGS.

2.2. THE SLAB THICKNESS HAS BEEN OVERSIZED TO MINIMIZE DIFFERENTIAL MOVEMENT OF THE TANK AND CRACKING OF THE SLAB. AS WITH ALL SURFACE FOUNDATIONS, THIS SLAB IS SUBJECT TO SEASONAL GROUND MOVEMENT.

2.3. UNLESS NOTED OTHERWISE, THE SLAB-ON-GRADE FOUNDATION PAD HAS BEEN DESIGNED FOR THE EXISTING TANK WHICH IS ON SITE.

TANK SELF WEIGHT	3725 kg (37.3 kN)
TANK CONTENTS	9500 kg (95.0 kN)

3. CAST-IN-PLACE REINFORCED CONCRETE

3.1. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1.

3.2. SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN TABLE 6.1.

3.3. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.

3.4. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE DEPARTMENTAL REPRESENTATIVE. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283 AND TESTING TO BE COMPLETED IN ACCORDANCE WITH CSA-A23.2. TESTING SHALL BE PAID FOR BY CONTRACTOR.

4. CONCRETE REINFORCEMENT

4.1. REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400W.

4.2. DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE DEPARTMENTAL REPRESENTATIVE. REINFORCEMENT TO BE WELDED TO CONFORM TO CSA G30.18, GRADE 400W. WELDING ONLY PERMITTED BY AN ORGANIZATION CERTIFIED TO CSA W186.

4.3. CLEAR CONCRETE COVER TO REINFORCEMENT AS PER DRAWINGS.

4.4. STANDARD END HOOK LENGTHS FOR REINFORCING AS PER DRAWINGS.

4.5. REINFORCEMENT SPLICES SHALL BE 40 TIMES THE BAR DIAMETER.

4.6. MINIMUM RADIUS OF BAR BEND SHALL BE 3 TIMES THE BAR DIAMETER.

TABLE 6.1
TO BE READ IN CONJUNCTION WITH DESIGN NOTES SECTION 6 – CAST-IN-PLACE CONCRETE
CONTROLLED CONCRETE

CONCRETE ELEMENT	CLASS OF EXPOSURE	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	MINIMUM COMPRESSIVE STRENGTH AT 56 DAYS (MPa)	MAXIMUM AGGREGATE SIZE (mm)	AIR CONTENT CATEGORY	MAXIMUM W/C RATIO	CEMENT TYPE
EXTERIOR CONCRETE							
SLABS ON GRADE	C-2	32	NA	20	1	0.45	GU

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CONSTRUCTION NORTH

Legend

Notes

Revision	By	Appd.	YY.MM.DD
B ISSUED FOR TENDER	MJW	MJW	2015.07.28
A ISSUED FOR 99% REVIEW	MJW	MJW	2015.05.16
Issued	By	Appd.	YY.MM.DD

File Name: Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

PERMIT TO PRACTICE
STANTEC ARCHITECTURE LTD.
Signature
Date 28 JULY 2015
PERMIT NUMBER: P 800
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
M.J. WHITE
163301865
NWT/NU
July 28, 2015

Client/Project
Government of Canada

Iqaluit GOCB Oil Tank Upgrade

Iqaluit, Nunavut

Title
STRUCTURAL PLAN & DETAILS

Project No.	Scale	
163301865	AS SHOWN	
Drawing No.	Sheet	Revision
S-101	1 of 1	A

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ORIGINAL SHEET - ANSI D