

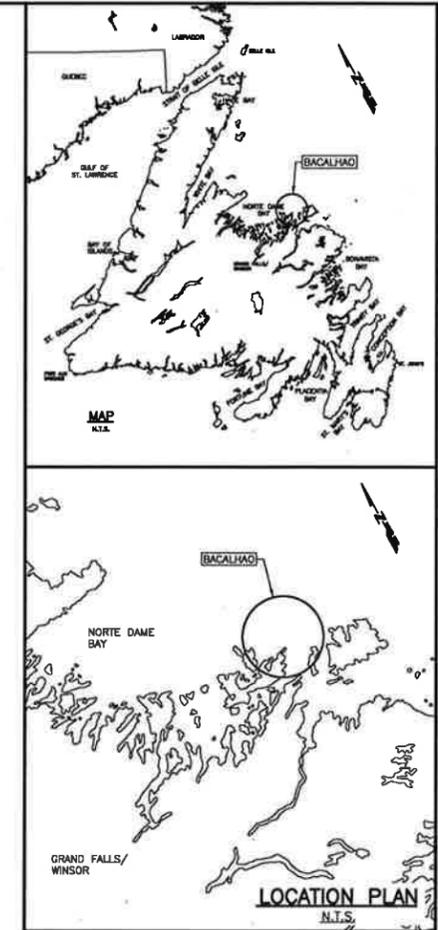
FISHERIES AND OCEANS

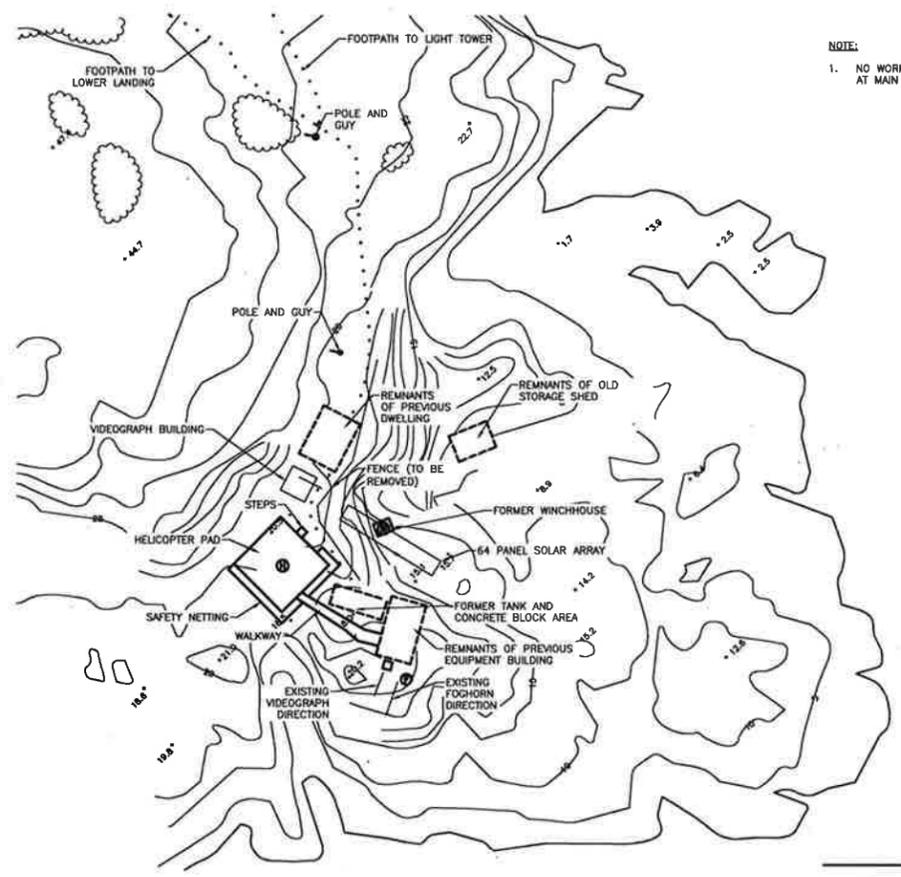
**REFURBISHMENT OF THE BACALHAO
LIGHT TOWER**

NEWFOUNDLAND AND LABRADOR

**PROJECT No. F6879-165009
ISSUED FOR TENDER**

CLIENT/OWNER:
DEPARTMENT OF FISHERIES & OCEANS,
REAL PROPERTY, SAFETY & SECURITY

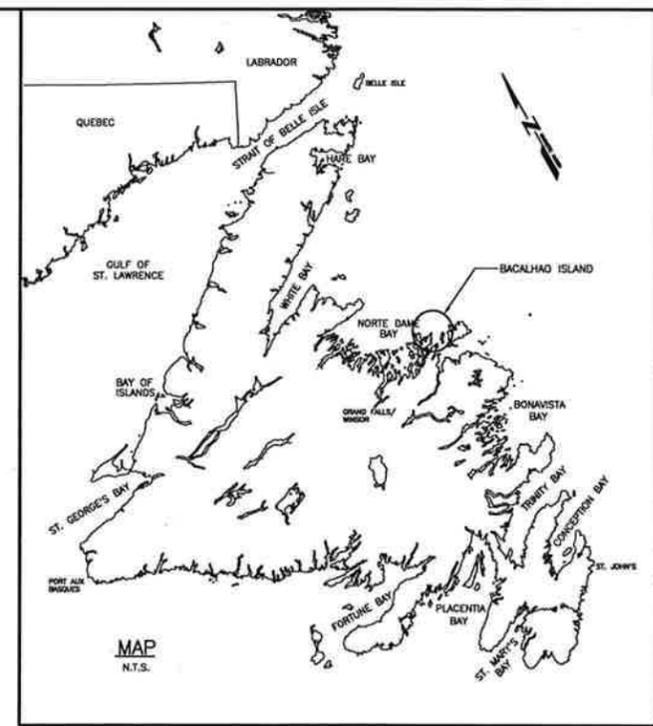




NOTE:
1. NO WORK ASSOCIATED WITH INFRASTRUCTURE AT MAIN AREA.

SURVEY LEGEND:
+00.0 SPOT ELEVATIONS

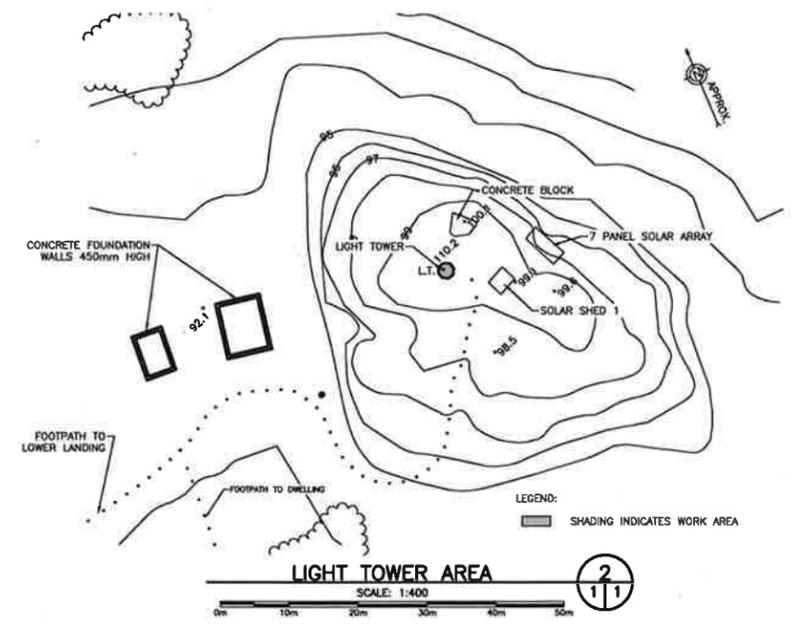
MAIN AREA
SCALE: 1:500



NOTES:
1. ALL ELEVATIONS IN METRES WITH RESPECT TO L.N.T. UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

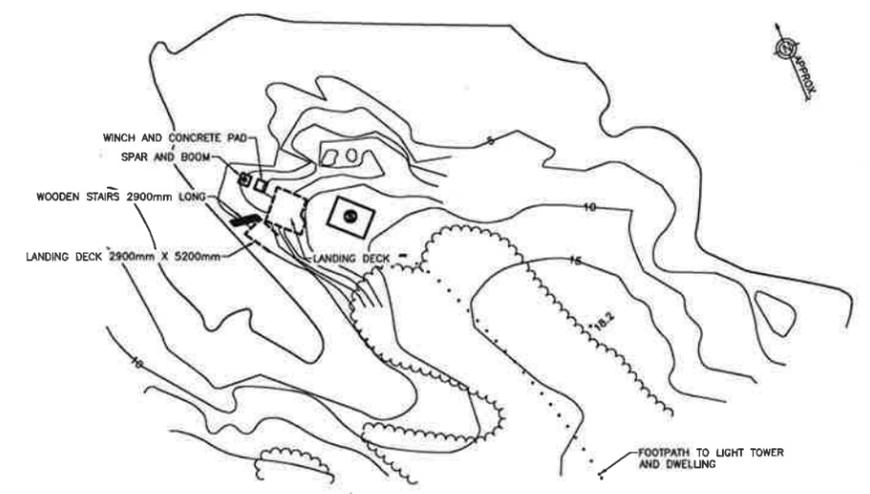
Fisheries and Oceans / Pêches et Océans
Real Property, Safety & Security / Réels Immobiles, Sécurité et Protection de l'écoterrain

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
APM ENGINEERING INC.
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by APEGL, 2016E, valid in full for the year 2016.



LEGEND:
SHADING INDICATES WORK AREA

LIGHT TOWER AREA
SCALE: 1:400



NOTE:
1. NO WORK ASSOCIATED WITH SATELLITE SOLAR ARRAY INFRASTRUCTURE.

SATELLITE SOLAR ARRAY AREA
SCALE: 1:400

A	ISSUED FOR TENDER	06/25/16
revision		date
project		project

REFURBISHMENT OF THE BACALHAO ISLAND LIGHT TOWER, NL

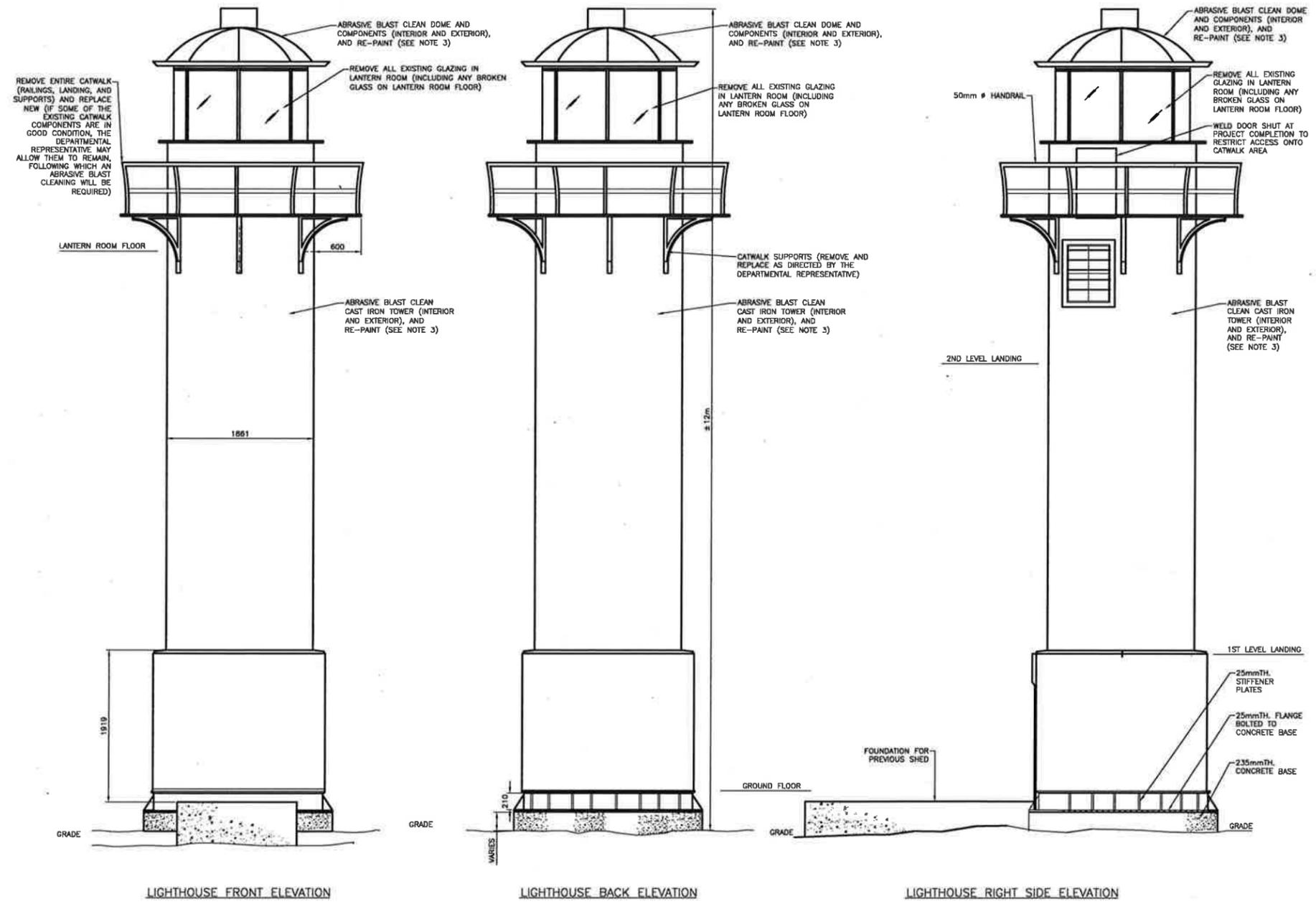
SITE PLAN

designed	N.H.	checked
date	JUNE 25, 2016	checked
drawn	P.H.	checked
date	JUNE 25, 2016	checked
approved	<i>APM</i>	approved
date		approved
Tender		Submission

project number: F6879-165009
drawing no.: 02E1004C01901

NOTES:

1. CONSIDER DIMENSIONS SHOWN TO BE APPROXIMATE.
2. PICTURES OF THE SITE ARE INCLUDED IN THE SPECIFICATIONS.
3. IMPLEMENT MEASURES TO LIMIT OCCUPATIONAL EXPOSURE TO LEAD DURING ABRASIVE BLASTING OPERATIONS. MINIMUM REQUIREMENTS INCLUDE AN ENCLOSED WORK AREA COMPLETE WITH CLEAN ROOM, SHOWER ROOM AND DIRTY ROOM, WITH NEGATIVE AIR UNITS IN WORK AREA. FOR THE PURPOSES OF TRANSPORTATION AND DISPOSAL, SPENT ABRASIVES, WHICH WOULD INCLUDE THE LEAD PAINT REMOVED FROM THE SURFACES OF THE TOWER, ARE CONSIDERED TO BE HAZARDOUS WASTE AND IS RESTRICTED FROM DISPOSAL IN THE PROVINCE.
4. ALL SCAFFOLDING USED IN THE WORK IS TO BEAR THE STAMP OF A PROFESSIONAL ENGINEER, LICENSED BY PEG-NL TO PRACTICE IN NL.



ELEVATIONS

SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



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which is valid for the year 2016.

REGULATED PROFESSIONAL SERVICES
REG. C 1037
2016-16-01
09/25/16
NEWFOUNDLAND & LABRADOR

A	ISSUED FOR TENDER	06/24/16
revision		date
project		project

**REFURBISHMENT OF THE
BACALHAO ISLAND
LIGHT TOWER, NL**

DEMOLITION PLAN

designed	N.H.	input
date	JUNE 25, 2016	
drawn	P.H.	checked
date	JUNE 25, 2016	
approved	<i>JB</i>	approved
date		
Tender		Submission

project number	no. du projet
F6879-165009	
drawing no.	no. du dessin
02E1004C01902	

GALVANIZED STEEL SECTIONS:

1. EXTERIOR GALVANIZED STEEL SECTIONS: PRESSURE WASH OR ABRASIVE BLAST TO REMOVE ALL EXISTING COATING THAT ARE ON THE STEEL SURFACE. POWER TOOL CLEAN SSPC-SP-11 TO ROUGHEN THE EXPOSED GALVANIZED SURFACE AND TO REMOVE ALL RUST THAT HAS DEVELOPED ON THE SURFACE. TO MEET THE REQUIREMENTS OF SSPC-SP-11, THE SURFACE IS TO BE POWER TOOL CLEANED TO BARE METAL. WHEN VIEWED WITHOUT MAGNIFICATION, THE SURFACE SHALL BE FREE OF ALL VISIBLE OIL, GREASE, DIRT, DUST, MILL SCALE, RUST, PAINT, OXIDES, CORROSION PRODUCTS, AND OTHER FOREIGN MATTER. SLIGHT RESIDUES OF RUST AND PAINT MAY BE LEFT IN THE LOWER PORTION OF PITS IF THE ORIGINAL SURFACE IS PITTED. THE SURFACE PROFILE SHALL NOT BE LESS THAN 1 MIL (25 MICRONS).
2. DEPARTMENTAL REPRESENTATIVE WILL CONDUCT AN INSPECTION PRIOR TO RE-PAINING TO CONFIRM THAT THE SURFACES HAVE BEEN PREPARED PROPERLY. NO RE-PAINING IS TO BE INITIATED WITHOUT THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

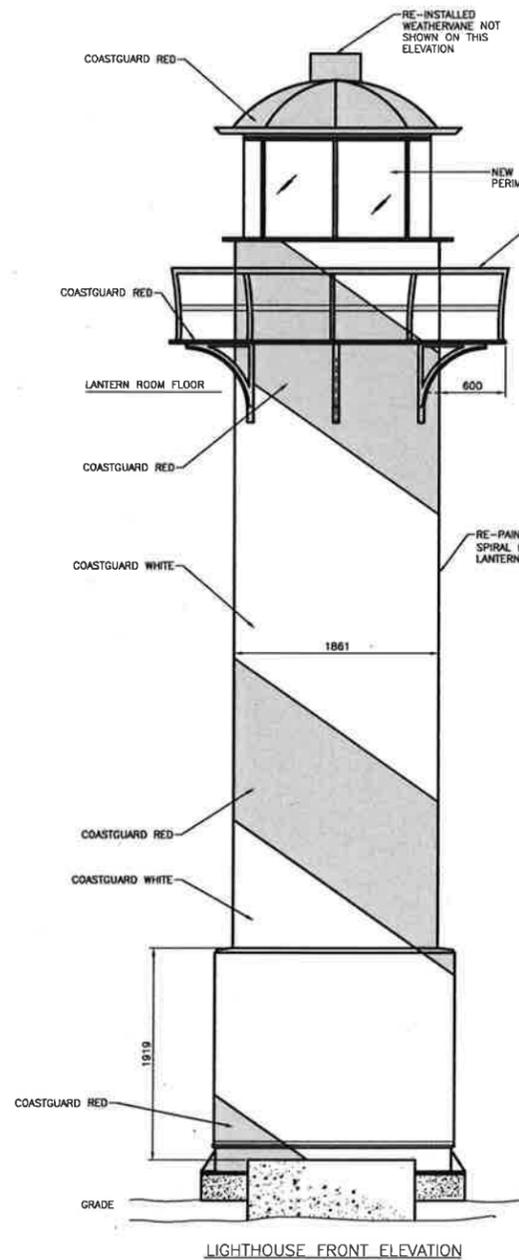
ACCEPTABLE PAINT PRODUCTS (OR APPROVED EQUIVALENTS) FOR GALVANIZED STEEL SECTIONS, ARE AS FOLLOWS:

1. PRIME SURFACE BY APPLYING 2 COATS OF AMERLOCK 2 SURFACE TOLERANT EPOXY COATING (OR APPROVED EQUIVALENT) AT 5-7 MILS DRY FILM THICKNESS PER COAT. APPLY ONE COAT OF AMERSHIELD HIGH SOLIDS POLYURETHANE COATING (OR APPROVED EQUIVALENT) AT 3-5 MILS DRY FILM THICKNESS.
2. ALL RED PAINT TO BE "COAST GUARD RED".

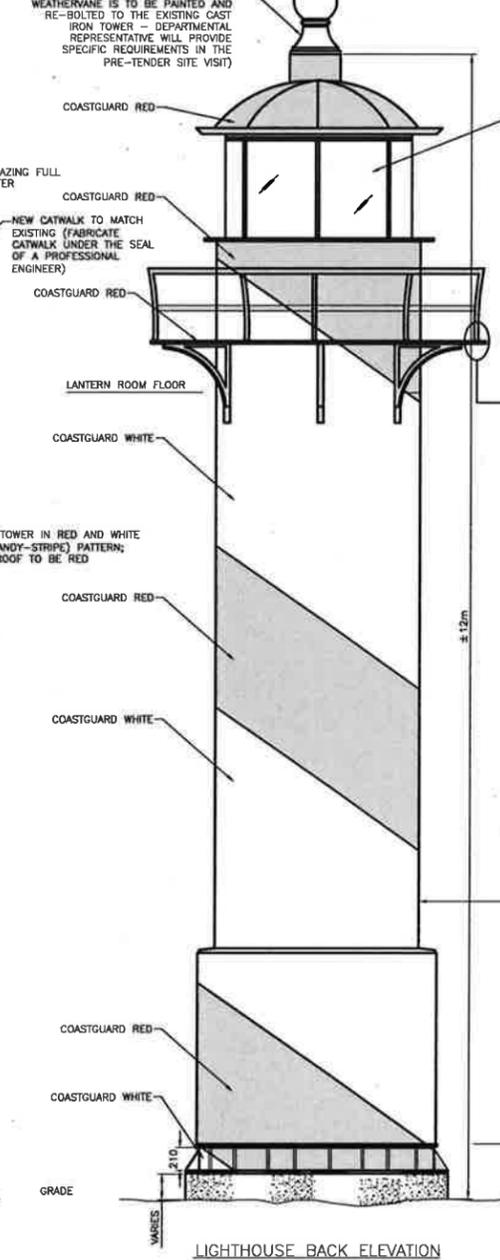
CAST IRON SECTIONS:

1. PRESSURE WASH USING FRESH WATER TO REMOVE ALL CHLORIDES AND CONTAMINANTS THAT ARE ON THE SURFACE. ABRASIVE BLAST THE SUBSTRATE TO SSPC-SP-10 NEAR WHITE METAL TO ACHIEVE AN ANCHOR PROFILE OF 2.0 MILS. THE SSPC-SP10'S DEFINITION OF A NEAR-WHITE METAL BLAST CLEAN REQUIRES THE SURFACE TO BE FREE OF ALL VISIBLE OIL, GREASE, DIRT, DUST, MILL SCALE, RUST, COATING, OXIDES, CORROSION PRODUCTS, AND OTHER FOREIGN MATTER WHEN VIEWED WITHOUT MAGNIFICATION. THE STANDARD ALSO PROVIDES REQUIREMENTS FOR "RANDOM STAINING" ON THE SURFACE WHICH SHALL NOT EXCEED FIVE PERCENT OF EACH UNIT AREA OF SURFACE. THE SURFACE SHALL BE CLEANED OF OIL, GREASE, AND DUST AFTER THE NEAR-WHITE METAL BLASTING PROCEDURE.
2. ANY BLASTED AREAS THAT SHOW PITTING ARE TO BE FILLED WITH BELZONA 1111 SUPER METAL PASTE GRADE METALLIC FILLER (OR APPROVED EQUIVALENT). PITS SHOULD BE FILLED FLUSH WITH SURROUNDING STEEL AREA PRIOR TO PRIMING.
3. ONCE ALL PITTING HAS BEEN ADDRESSED APPLY ONE COAT OF AMERCOAT 370 EPOXY (OR APPROVED EQUIVALENT) AT 5 MILS DRY FILM THICKNESS.
4. APPLY ONE COAT (BY PLURAL SPRAY) OF PPG AMERTHANE 490 ELASTOMERIC POLYUREA HIBRIDO COATING (OR APPROVED EQUIVALENT) AT 80 MILS DRY FILM THICKNESS.
5. APPLY ONE COAT OF PPG AMERSHIELD HIGH SOLIDS POLYURETHANE (OR APPROVED EQUIVALENT) AT 3 MILS DRY FILM THICKNESS.

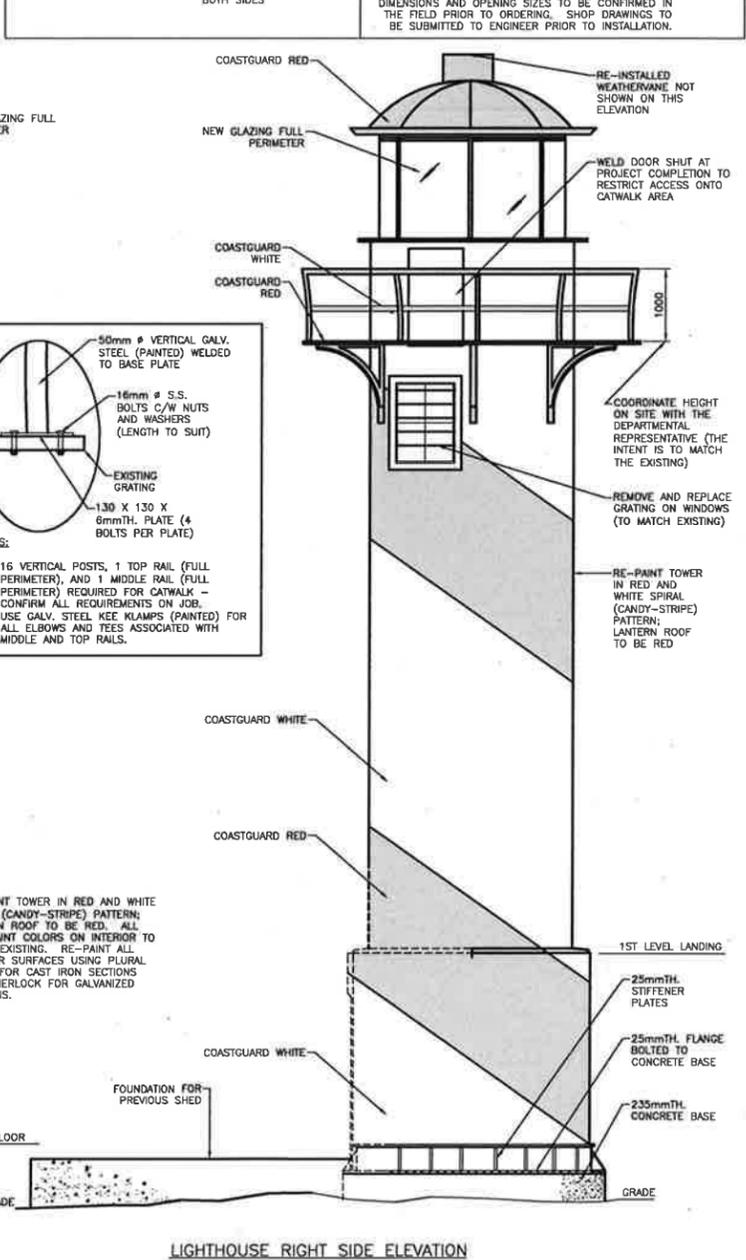
RE-INSTALLED WEATHERVANE (FOR BIDDING ASSUME THE EXISTING WEATHERVANE IS TO BE PAINTED AND RE-BOLTED TO THE EXISTING CAST IRON TOWER - DEPARTMENTAL REPRESENTATIVE WILL PROVIDE SPECIFIC REQUIREMENTS IN THE PRE-TENDER SITE VISIT)



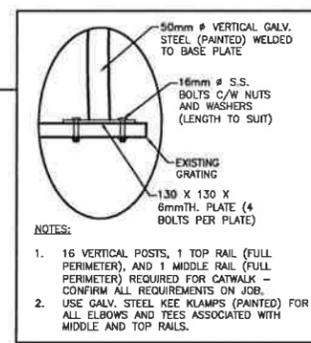
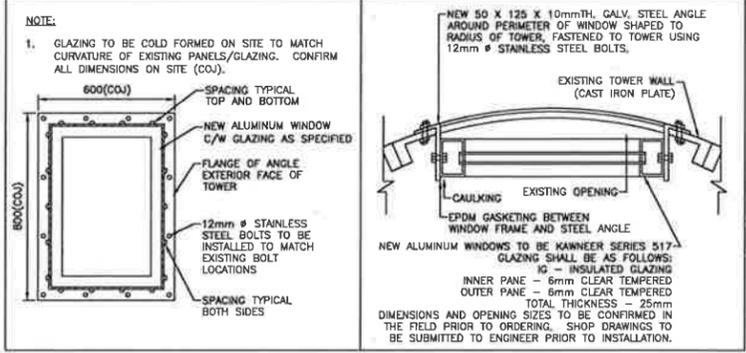
LIGHTHOUSE FRONT ELEVATION



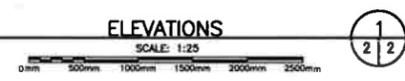
LIGHTHOUSE BACK ELEVATION



LIGHTHOUSE RIGHT SIDE ELEVATION



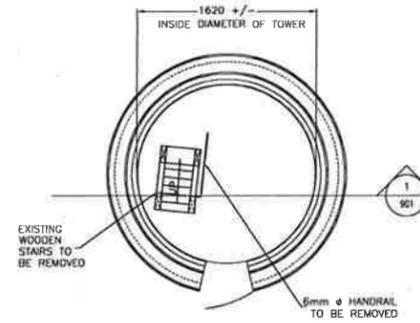
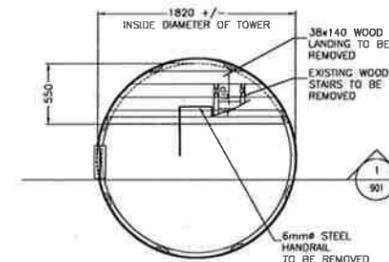
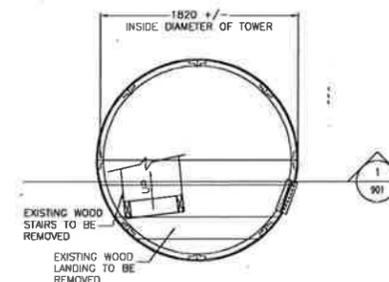
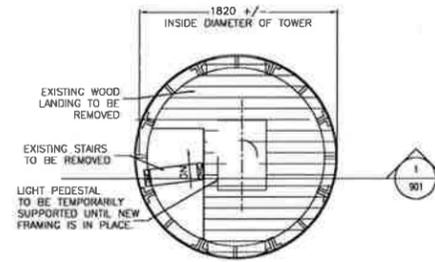
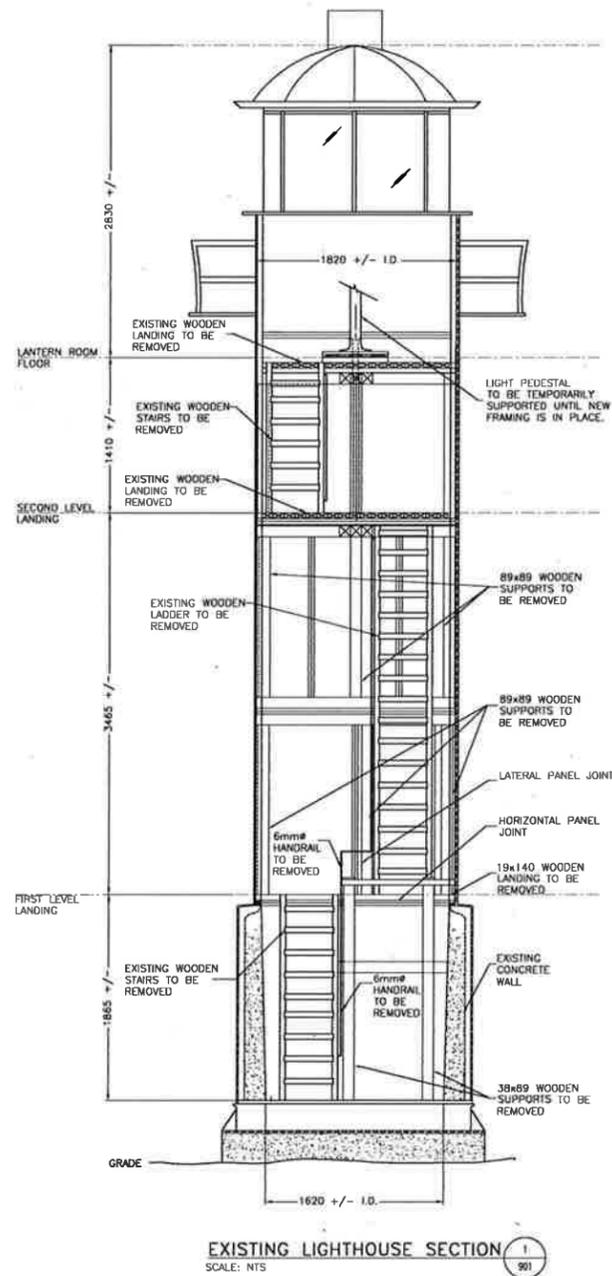
- NOTES:
1. 16 VERTICAL POSTS, 1 TOP RAIL (FULL PERIMETER), AND 1 MIDDLE RAIL (FULL PERIMETER) REQUIRED FOR CATWALK - CONFIRM ALL REQUIREMENTS ON JOB.
 2. USE GALV. STEEL KEE KLAMPS (PAINTED) FOR ALL ELBOWS AND TEES ASSOCIATED WITH MIDDLE AND TOP RAILS.



PROVINCE OF NEWFOUNDLAND
 PERMIT HOLDER
 This Permit Allows
 JPM ENGINEERING INC.
 To practice Professional Engineering
 in Newfoundland and Labrador.
 Permit No. as issued by APEBCO, 20088,
 which is valid for the year 2018.

REG. C. 8077
 09/29/18
 NEWFOUNDLAND & LABRADOR

A	ISSUED FOR TENDER	06/25/16
revisions		date
project		date
REFURBISHMENT OF THE BACALHAO ISLAND LIGHT TOWER, NL		
drawing		sheet
NEW WORK		
designed N.H.	date	checked
drawn P.H.	date	approved
approved	date	approved
checked	date	approved
project number	no. of sheets	
F6879-165009		
drawing no.	no. of sheets	
02E1004C01903		



DEMOLITION NOTES

1. ALL PAINT ON INTERIOR WALLS AND FLOORS, TO BE REMOVED USING HIGH PRESSURE JET BLAST CLEANING. REFER TO SPECIFICATIONS.
2. ALL GLAZING AT LANTERN ROOM TO BE REMOVED AND REPLACED.
3. ALL EXISTING WOODEN LADDERS / RAILS TO BE REMOVED.
4. ALL EXISTING WOODEN LANDINGS TO BE REMOVED.
5. ALL EXISTING ELECTRICAL INCLUDING LIGHT FIXTURES, CABLES, AND CONDUIT TO BE DETACHED FROM STRUCTURE PRIOR TO COMMENCING WORK, AND REINSTATED WHEN WORK IS COMPLETE. ENSURE ELECTRICAL PANELS ARE FULLY PROTECTED WITH TEMPORARY ENCLOSURE.
6. STRUCTURAL DRAWINGS DESCRIBE THE COMPLETED STRUCTURE ONLY AND DO NOT INCLUDE ELEMENTS WHICH MAY BE NECESSARY FOR TEMPORARY WORKS AND SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL REQUIRED TEMPORARY WORKS SUCH AS BRACING, SHORING, ETC. AND FOR THE SAFETY IN AND AROUND THE JOBSITE DURING CONSTRUCTION.

GENERAL NOTES

1. CONTRACTOR TO CARRY OUT A THOROUGH INSPECTION OF THE JOB SITE TO FAMILIARIZE HIMSELF WITH THE EXTENT AND NATURE OF THE WORK INVOLVED BEFORE SUBMITTING TENDER.
2. ANY DAMAGE THAT MAY OCCUR TO THE EXISTING STRUCTURE, EQUIPMENT, OR ELECTRICAL EQUIPMENT DURING THIS CONTRACT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. REPAIR AND MAKE LIKE NEW.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS IN AN APPROVED MANNER.
4. ALL DIMENSIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF LADDERS AND LANDINGS.
5. NAVIGATION LIGHT IS TO BE PROTECTED FROM DUST AND DAMAGE AT ALL TIMES. IF LIGHT IS TO BE TURNED OFF, 72 HOURS NOTICE MUST BE GIVEN TO OWNER.
6. ALL AREAS OF LIGHT TOWER AND PORCH, INCLUDING ALL ELECTRICAL TO BE COMPLETELY PROTECTED DURING ANY WORK. ANY DAMAGE THAT OCCURS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED AT THE CONTRACTORS EXPENSE.

Fisheries and Oceans / Pêches et Océans
Real Property, Safety & Security / Biens immobiliers, protection et sécurité

NOTES:
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON-SITE. ANY DISCREPANCIES AND/OR UNSATISFACTORY CONDITIONS SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. ALL DIMENSIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS NOT TO BEGIN FABRICATION OR CONSTRUCTION FROM DRAWINGS UNLESS THEY ARE ISSUED FOR CONSTRUCTION.

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
THIS PERMIT ALLOWS
HADERRA ENGINEERING
To practice Professional Engineering in Newfoundland and Labrador
Permit No. as approved by PEG 18203
which is valid for the year 2016

Star
PEG
MOHAMMED A.A. HOSSEIN
1/20/16
Newfoundland & Labrador

B	REISSUED FOR TENDER	11/28/16
A	ISSUED FOR TENDER	04/27/16
revisions		date
project		project

REFURBISHMENT OF THE BACALHAO ISLAND LIGHT TOWER, NL

drawing

design

EXISTING ELEVATION AND FLOOR PLANS DEMOLITION

designed M.H. comp

date JULY 08, 2016

drawn S.B. designed

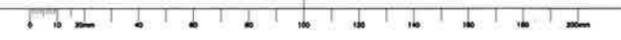
date JULY 06, 2016 approved

approved **DB**

date Tender

project number no. of project
F6879-165009

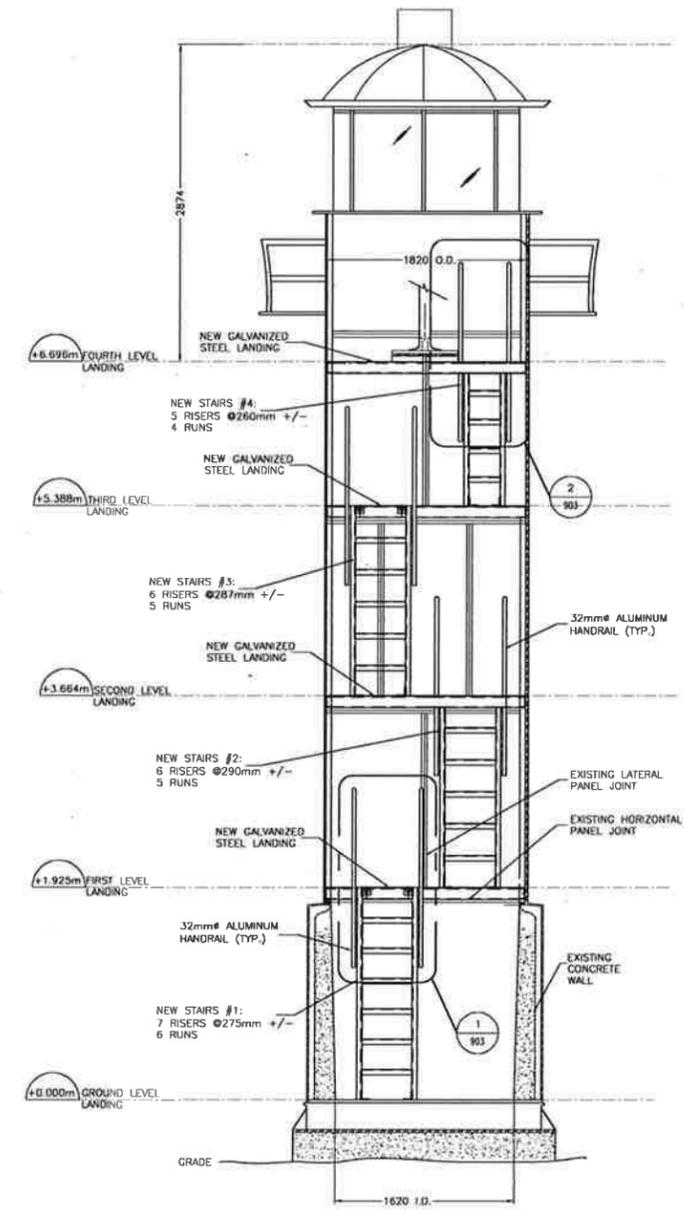
drawing no. no. of drawing
02E1004S01901



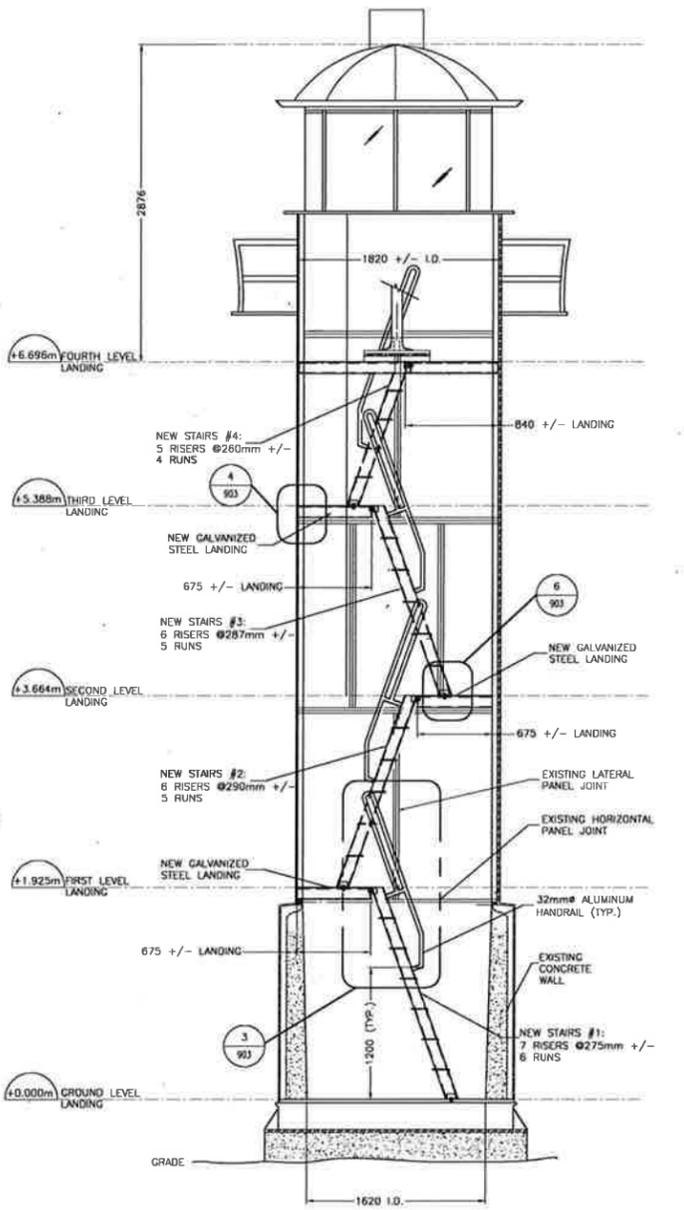
NOTES:
 1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON-SITE. ANY DISCREPANCIES AND/OR UNSATISFACTORY CONDITIONS SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 2. DO NOT SCALE FROM THE DRAWINGS.
 3. CONTRACTOR IS NOT TO BEGIN FABRICATION OR CONSTRUCTION FROM DRAWINGS UNLESS THEY ARE ISSUED FOR CONSTRUCTION.

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEG
 PROFESSIONAL ENGINEER
 PERMIT HOLDER
 THIS PERMIT ALLOWS
HABERRA ENGINEERING
 To practice Professional Engineering in Newfoundland and Labrador
 Permit No. as issued by PEC 10253
 which is valid for the year 2016

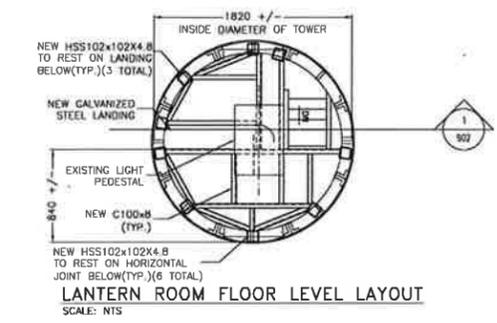
STAMP



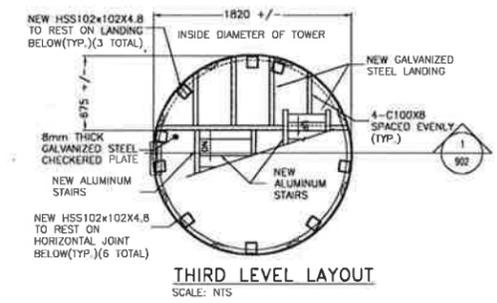
EXISTING LIGHTHOUSE SECTION 1
 SCALE: NTS



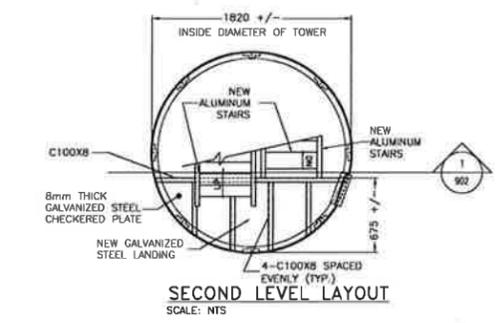
EXISTING LIGHTHOUSE SECTION 2
 SCALE: NTS



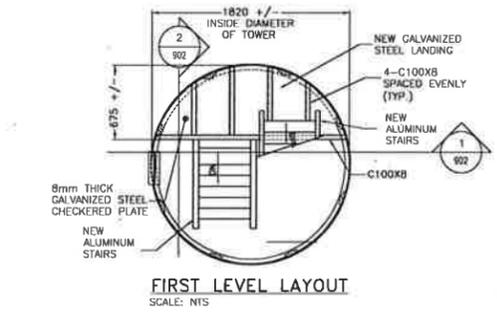
LANTERN ROOM FLOOR LEVEL LAYOUT
 SCALE: NTS



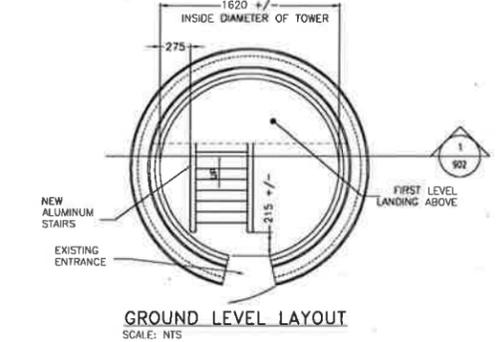
THIRD LEVEL LAYOUT
 SCALE: NTS



SECOND LEVEL LAYOUT
 SCALE: NTS



FIRST LEVEL LAYOUT
 SCALE: NTS



GROUND LEVEL LAYOUT
 SCALE: NTS

B	REISSUED FOR TENDER	07/06/16
A	ISSUED FOR TENDER	06/07/16
revisions		date
project		project

REFURBISHMENT OF THE BACALHAO ISLAND LIGHT TOWER, NL

NEW ELEVATION AND FLOOR PLANS

designed	M.H.	checked
date	JULY 06, 2016	
drawn	S.B.	checked
date	JULY 06, 2016	
approved		approved
date		
submitter		submission

project number	no. du projet
F6879-165009	
drawing no.	no. du dessin
02E1004S01902	



