FISHERIES AND OCEANS



RESTORATION OF THE NEW FERROLLE LIGHT TOWER

PORT AUX CHOIX, NL

PROJECT NO.: F6879-159011
ISSUED FOR TENDER

DATE: JULY 14, 2015

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

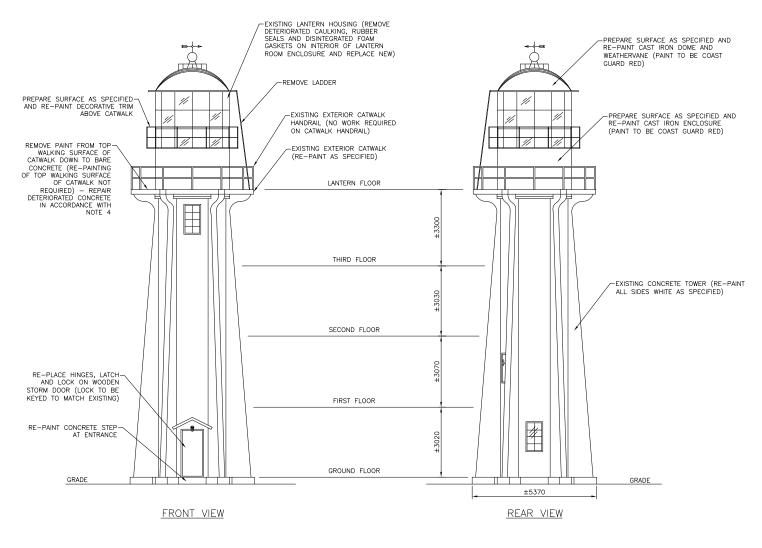
PRIME CONSULTANTS:

AFN ENGINEERING INC.

DRAWING LIST:

12P0204A008C1

8C1 WORK





- . SCAFFOLDING MUST BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER, LICENSED BY PEG-NL TO PRACTICE ENGINEERING IN THE PROVINCE OF NL.

 SAMPLE RESULTS APPENDED TO THE SPECIFICATIONS INDICATE THAT THE EXTERIOR PAINT ON THE CONCRETE SURFACES IS LEAD BASED. ALL LEAD PAINT REMOVAL ACTIVITIES ARE TO BE IN ACCORDANCE WITH SPECIFICATION SECTION 02 83 12, WITH SPECIFIC REFERENCE OT THE "GUIDELINE FOR LEAD ON CONSTRUCTION PROJECTS FROM OCCUPATIONAL HEALTH AND SAFETY BRANCH, ONTARIO MINISTRY OF LABOUR, APRIL, 2011". A COPY OF THIS DOCUMENT CAN BE PROVIDED BY THE DEPARTMENTAL REPRESENTATIVE UPON REQUEST.

 PRESSURE WASH THE TOWER AND IDENTIFY CRACKS IN THE PRESSURE OF THE DEPARTMENTAL REPRESENTATIVE. FOR BIDDING ASSUME 20 LINEAR METRES OF CRACKS TO BE REPAIRED. BY THE DEPARTMENTAL REPRESENTATIVE. FOR BIDDING ASSUME 20 LINEAR METRES OF CRACKS TO BE REPAIRED. BY THE DEPARTMENTAL REPRESENTATIVE. FOR BIDDING ASSUME 20 LINEAR METRES OF CRACKS TO BE REPAIRED. PATCHING OF SPALLED CONCRETE, SHALL BE DONE TO APPROVAL OF THE ENGINEER IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICES FOR SURFACE PREPARATION, MIXING, APPLICATION, CURING AND OTHER STEPS FOR CONCRETE REPAIR REMOVE LOOSE AND CRACKED CONCRETE SURFACES. WITH CLEAN WATER TO ACHIEVE A SATURATED SURFACE PREPARATION, MIXING, APPLICATION, CURING AND OTHER STEPS FOR CONCRETE SURFACES. WITH CLEAN WATER TO ACHIEVE A SATURATED SURFACE ORY CONDITION. APPLY SIMA TOP ARMATEC 110 EPOCHEM BONDING AGENT TO THE CHIPPED CONCRETE SURFACES WITH CLEAN WATER TO ACHIEVE A SATURATED SURFACE ORY CONDITION. SURKA TO PROVIDE SURFACE ON SIMA TO PRAMATEC 110 EPOCHEM BONDING AGENT TO THE CHIPPED CONCRETE SURFACES. WITH CLEAN WATER TO ACHIEVE A SATURATED SURFACE ONCETE. REDUCE CONCRETE AND EXPRACES ON SITE CONDITIONS (COORDINATE MIX DESIGN WITH ENDINGER). FOR BIDDING, ASSUME THE SURFACE AREA OF CONCRETE REPAIR IS CONDITIONS (COORDINATE MIX DESIGN WITH ENGINEER). FOR BIDDING, ASSUME THE SURFACE AREA OF CONCRETE REPAIR IS 2 SQUARE METRES

GALVANIZED STEEL SECTIONS:

- 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 LUWER 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—PAINTING TO CONFIRM THAT THE SURFACES HAVE BEEN PREPARED PROPERLY. NO RE—PAINTING IS TO BE INITIATED WITHOUT THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

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

- PRIME SURFACE BY APPLYING 2 COATS OF AMERICOCK 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.

 ALL RED PAINT TO BE "COAST GUARD RED".

CONCRETE TOWER:

- 1. WHERE CRACKS ARE IDENTIFIED IN CONCRETE, APPLY MASTER EMACO N425 (OR APPROVED EQUIVALENT) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALLOW REPAIRS TO CURE. DEPARTMENTAL REPRESENTATIVE WILL CLARIFY CRACKS TO BE REPAIRED AT THE PRE—TENDER SITE VISIT.

 2. ONCE REPAIRS HAVE CURED, PRESSURE MASH THE ENTIRE EXTERIOR CONCRETE STRUCTURE TO REMOVE ALL LOOSE COATINGS AND OTHER CONTAMINANTS THAT ARE ON THE SURFACE.

 3. APPLY 1 COAT TOUCH UP COAT OF MASTER PROTECT HB300 SB COATING (OR APPROVED EQUIVALENT) TO ANY BARE CONCRETE AREAS. OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL BEFORE PROCEEDING WITH SUBSEQUENT COATS.

 4. APPLY 2 COATS OF MASTER PROTECT HB300 SB COATING (OR

- 4. APPLY 2 COATS OF MASTER PROTECT HB300 SB COATING (OR APPROVED EQUIVALENT) TO THE ENTIRE CONCRETE SURFACE.

 APPLY AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

CAST IRON SECTIONS:

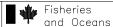
- CAST IRON SECTIONS:

 1. PRESSURE WASH USING FRESH WATER TO REMOVE ALL CHLORIDES AND CONTAMINANTS THAT ARE ON THE SUFFACE. 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 SUFFACE TO BE FREE OF ALL VISIBLE OIL, GREASE, DUST, DIRT, MILL SCALE, RUST, COATING, OXIDES, CORROSION PRODUCTS, AND OTHER FOREIGN MATTER WHEN VIEWED WITHOUT MACHIFICATION. THE STANDARD ALSO PROVIDES REQUIREMENTS FOR "RANDOM STAINING" ON THE SURFACE WHICH SHALL NOT EXCEDE 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 STEFL AREA PRIOR TO PRIMING.

 3. ONCE ALL PITTING HAS BEEN ADDRESSED APPLY ONE COAT OF AMERICAN 3.70 EPOXY (OR APPROVED EQUIVALENT) AT 5

- OF AMERCOAT 370 EPOXY (OR APPROVED EQUIVALENT) AT 5 MILS DRY FILM THICKNESS. APPLY ONE COAT (BY PLURAL SPRAY) OF PPG AMERTHANE 490 ELASTOMERIC POLYUREA HIBRID COATING (OR APPROVED
- EQUIVALENT) AT 80 MILS DRY FILM THICKNESS. APPLY ONE COAT OF PPG AMERSHIELD HIGH SOLIDS POLYURETHANE (OR APPROVED EQUIVALENT) AT 3 MILS DRY FILM THICKNESS.



Pêches et Océans

Biens immobiliers,

protection et sécurité



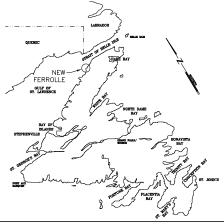
Real Property.

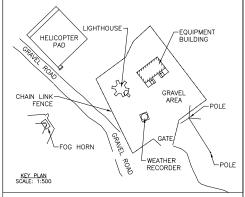
Safety & Security

To practice Professional Engineering in Newfoundland and Labrador.

Permit No. as issued by APEGNL F0292 which is valid for the year 2015







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	Α	ISSUED FOR TENDER	14/07/15	P.H.	N.H.		
- [no.	revision	date	by	approved		
	no	revision	date	par	approuve		

RESTORATION OF THE NEW FERROLLE LIGHT TOWER

WORK PLAN

drawn - dessine		designed - déssine par		
P.H.		N.H.		
date - date		checked - verifie		
JULY 14, 2015		N.H.		
scale - echelle		approved for tender-approuve pour l'offre		
AS SHOWN	٧			
project no projet no.	drawing no	no du dessin	sheet - feuille	
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