

FISHERIES AND OCEANS



CHANNEL HEAD LIGHT TOWER RESTORATION AND ASSOCIATED WORK 2015

CHANNEL HEAD , NL

PROJECT NO.: F6879-151004
ISSUED FOR TENDER

DATE: MARCH 21, 2015

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

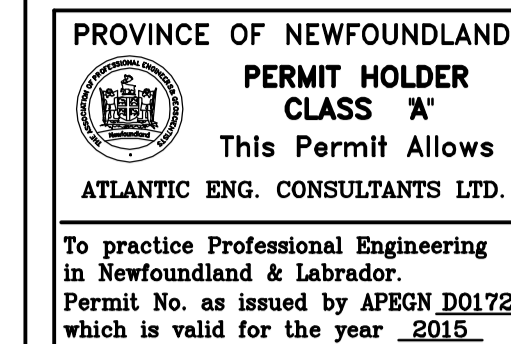
PRIME CONSULTANTS:
AFN ENGINEERING INC.

SUB CONSULTANT:



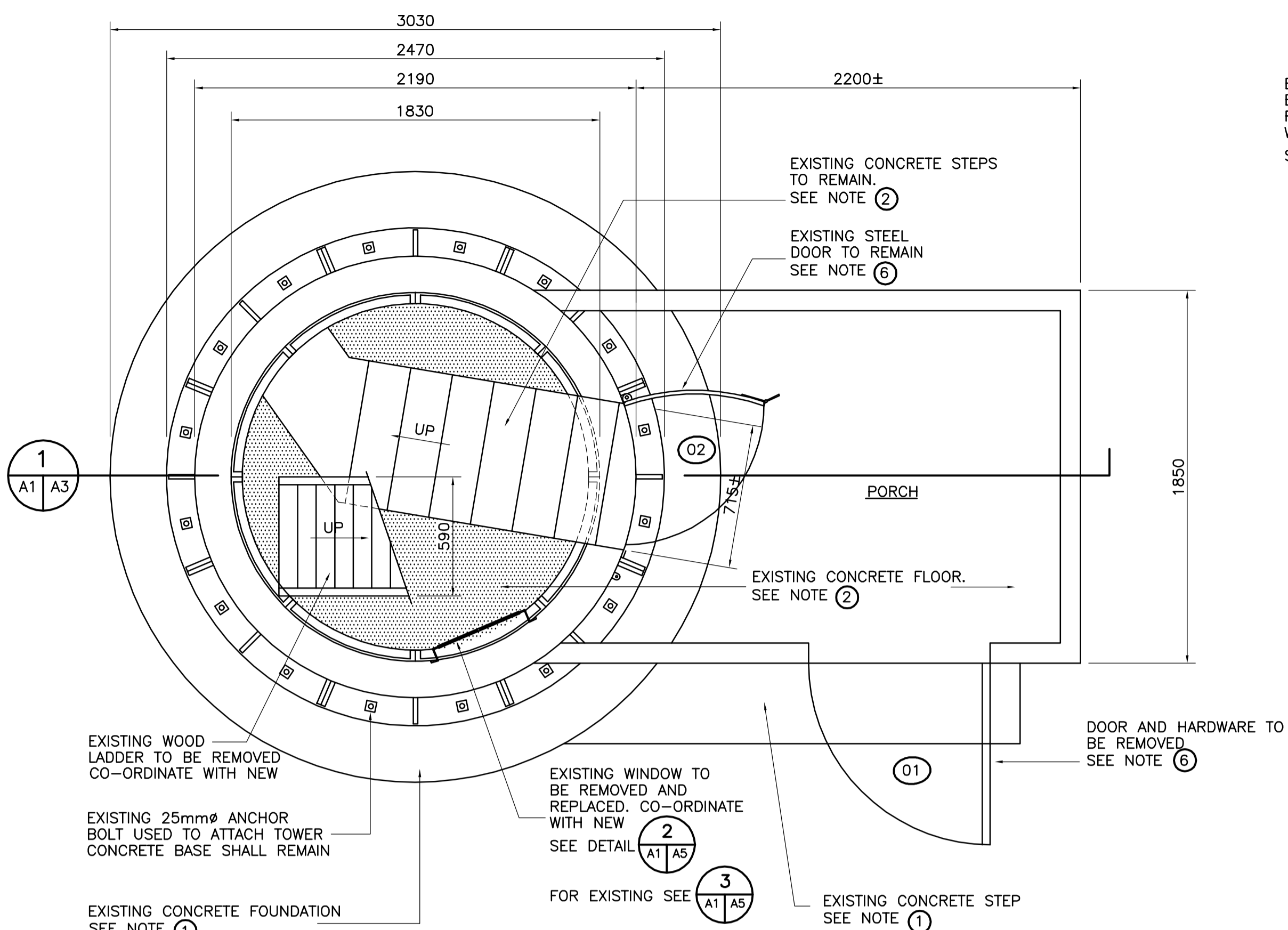
DRAWING LIST:

1101101D008A1	EXISTING FLOOR PLANS - DEMOLITION
1101101D008A2	EXISTING ELEVATIONS - DEMOLITION
1101101D008A3	EXISTING SECTION - DEMOLITION. NEW DETAILS
1101101D008A4	NEW FLOOR PLANS
1101101D008A5	NEW ELEVATIONS & WINDOW DETAILS
1101101D008A6	NEW SECTIONS - LADDER & FLOOR FRAMING DETAILS

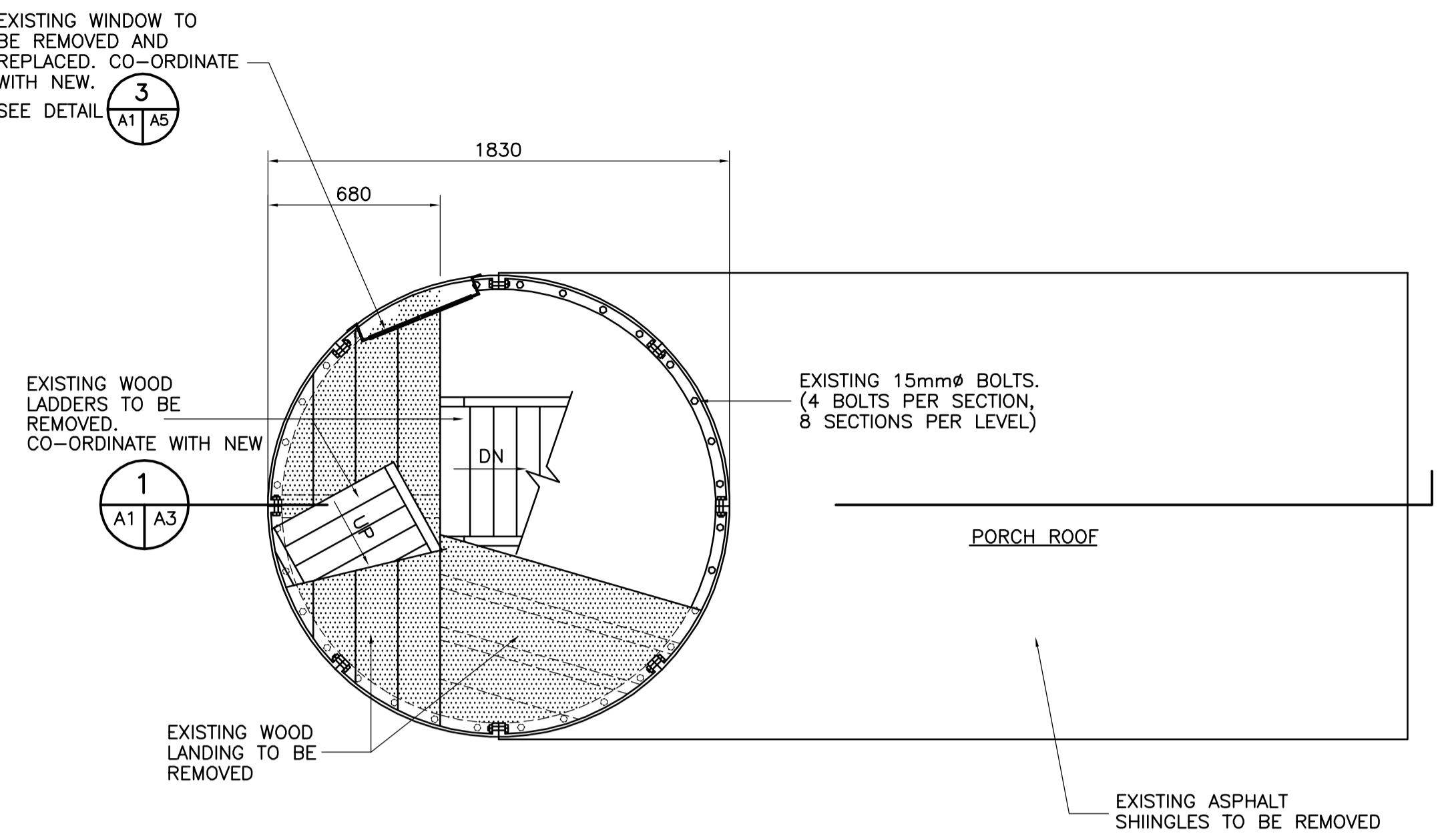


DEMOLITION NOTES

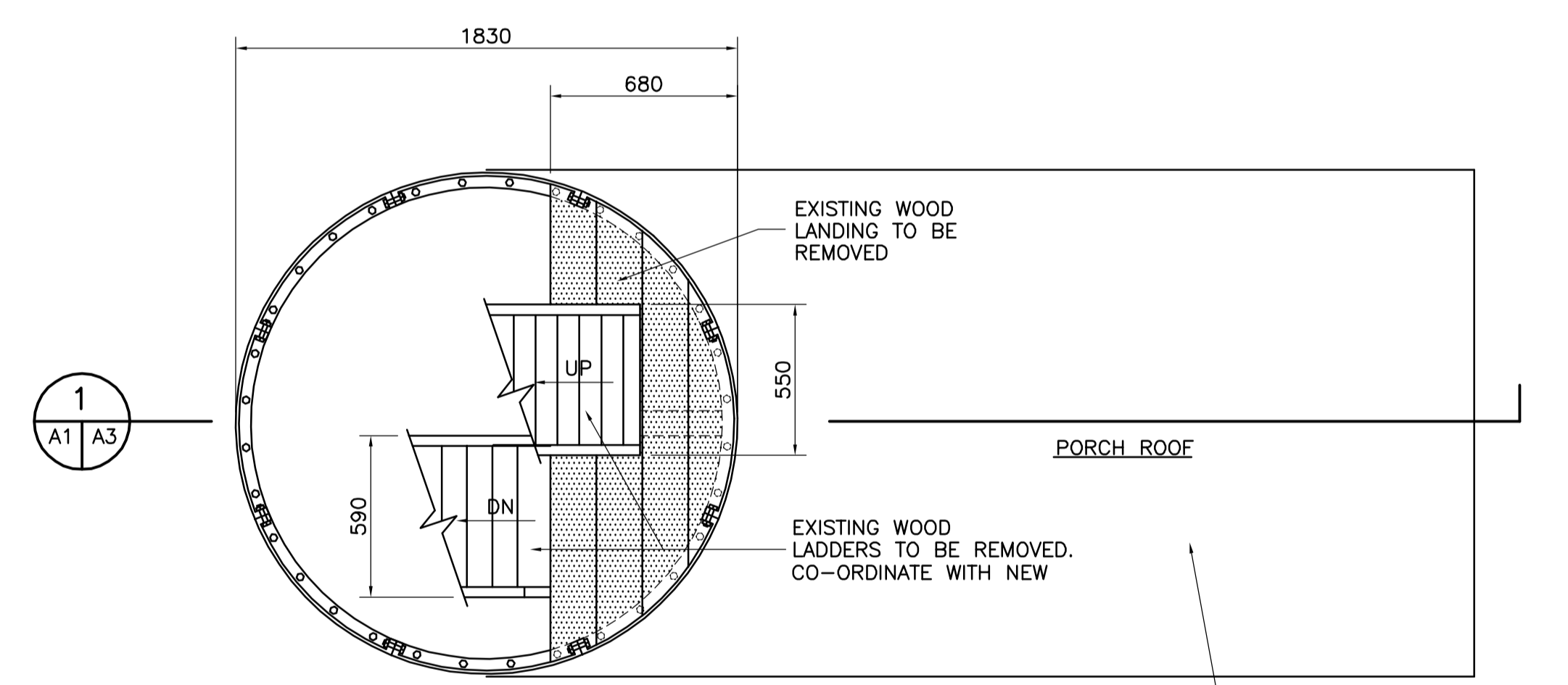
1. ALL PAINT ON EXTERIOR FACES OF WALLS, INCLUDING LANTERN ROOM, CATWALK, RAILING AROUND CATWALK, TOWER CONCRETE FOUNDATION AND CONCRETE STEPS TO BE REMOVED USING METHODS AS OUTLINED IN SECTION 09 91 13 OF SPECIFICATIONS. ALL LOCATIONS OF FORM TIES TO BE CHIPPED OUT IN PREPARATION FOR REPAIR. CO-ORDINATE WITH NEW. REFER TO SPECIFICATIONS.
2. ALL PAINT ON INTERIOR WALLS, FLOORS, CONCRETE STEPS, STEEL DOORS AND LANTERN ROOM FLOOR, WALLS AND ROOF TO BE REMOVED USING METHODS AS OUTLINED IN SECTION 09 91 13 OF SPECIFICATIONS.
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6. **DOOR_01**
EXISTING DOOR/FRAME AND HARDWARE TO BE REMOVED AND REPLACED. CO-ORDINATE WITH NEW.
DOOR_02
EXISTING STEEL PLATE DOOR AND HARDWARE TO REMAIN. ALL PAINT BOTH SIDES TO BE REMOVED USING METHOD AS OUTLINED IN SECTION 09 91 13 OF SPEC.
DOOR_03
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7. ALL EXISTING WINDOWS TO BE REMOVED AND REPLACED CO-ORDINATE WITH NEW.
8. ALL EXISTING ELECTRICAL INCLUDING LIGHT FIXTURES, CABLES, AND CONDUIT TO BE DETACHED FROM STRUCTURE PRIOR TO PRESSURE WASHING AS OUTLINED IN SPECIFICATIONS SECTION 09 91 13. AND REINSTATED WHEN WORK IS COMPLETE. ENSURE ELECTRICAL PANELS ARE FULLY PROTECTED WITH TEMPORARY ENCLOSURE.



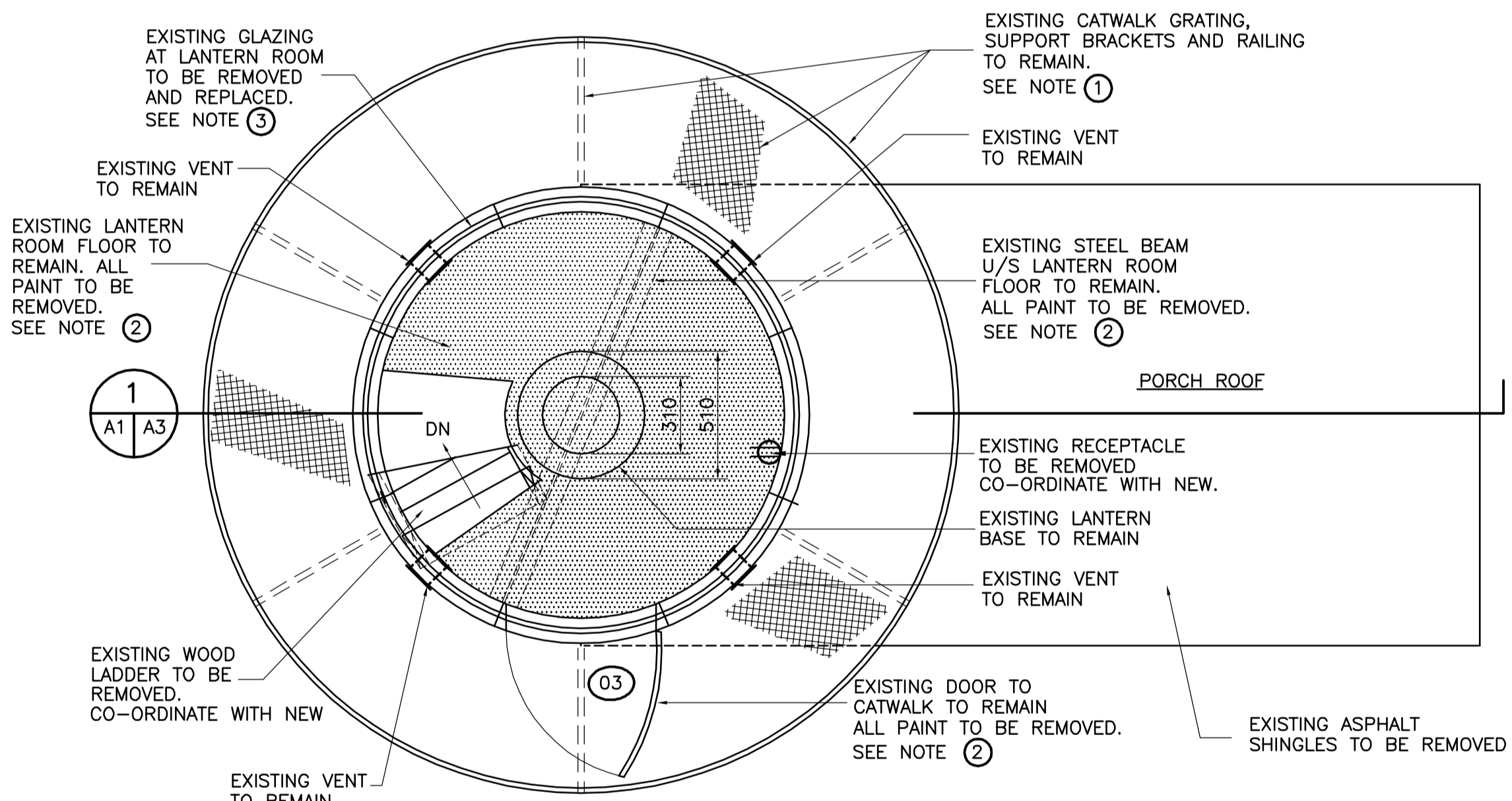
FIRST/SECOND LEVEL
SCALE 1:20



FOURTH LEVEL
SCALE 1:20



THIRD LEVEL
SCALE 1:20



LANTERN ROOM
SCALE 1:20

GENERAL NOTES

- A. 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.
- B. 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.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS IN AN APPROVED MANNER.
- D. ALL DIMENSIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF LADDERS AND LANDINGS.
- E. ANY REBAR EXPOSED TO BE PROTECTED FROM CORROSION USING RUST INHIBITOR. SEE SPECIFICATIONS.
- F. 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.
- G. ALL AREAS OF LIGHT TOWER AND PORCH, INCLUDING ALL ELECTRICAL TO BE COMPLETELY PROTECTED DURING ANY WORK INCLUDING JET BLASTING AND PAINTING. ANY DAMAGE THAT OCCURS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- H. FOLLOWING CLEANING PROCESS (REFER TO SPEC SECTION 09 91 13) IF ANY IMPERFECTIONS OR MINOR PERFORATIONS EXIST CONTRACTOR TO FILL / REPAIR AND BURNISH ANY ROUGH EDGES PRIOR TO FINISHING.
- J. FASTEN ALL THREE EXISTING DOWN CONDUCTORS FOR LIGHTNING PROTECTION SYSTEM TO THE EXISTING DRAIN PIPE AT FOUR EQUIDISTANT POINTS FROM THE EXTERIOR PLATFORM TO THE ROOF. TO PREVENT GALVANIC ACTION PROVIDE A 300mm LONG, 4mm THICK, RUBBER SLEEVE AROUND THE DRAIN PIPE AT EACH ATTACHMENT POINT AND SECURE CABLES TO PIPE USING TWO NYLON COATED STAINLESS STEEL CABLE TIES TOP & BOTTOM TYPE TYSOR OR APPROVED EQUAL AT EACH SLEEVE.
- K. RECONNECT EXISTING THREE LIGHTNING DOWN CONDUCTORS TO EXISTING GROUND ROD SYSTEM USING THE THERMIT WELDING PROCESS. (CADWELD)

2	ISSUED FOR TENDER	MAR 21/15			
1	ISSUED FOR REVIEW	FEB 11/15			
no. no.	revision revision	date date	by par	approved approve	

Project - projet
CHANNEL HEAD LIGHT TOWER RESTORATION AND ASSOCIATED WORK 2015

Drawing - dessin
EXISTING FLOOR PLANS DEMOLITION

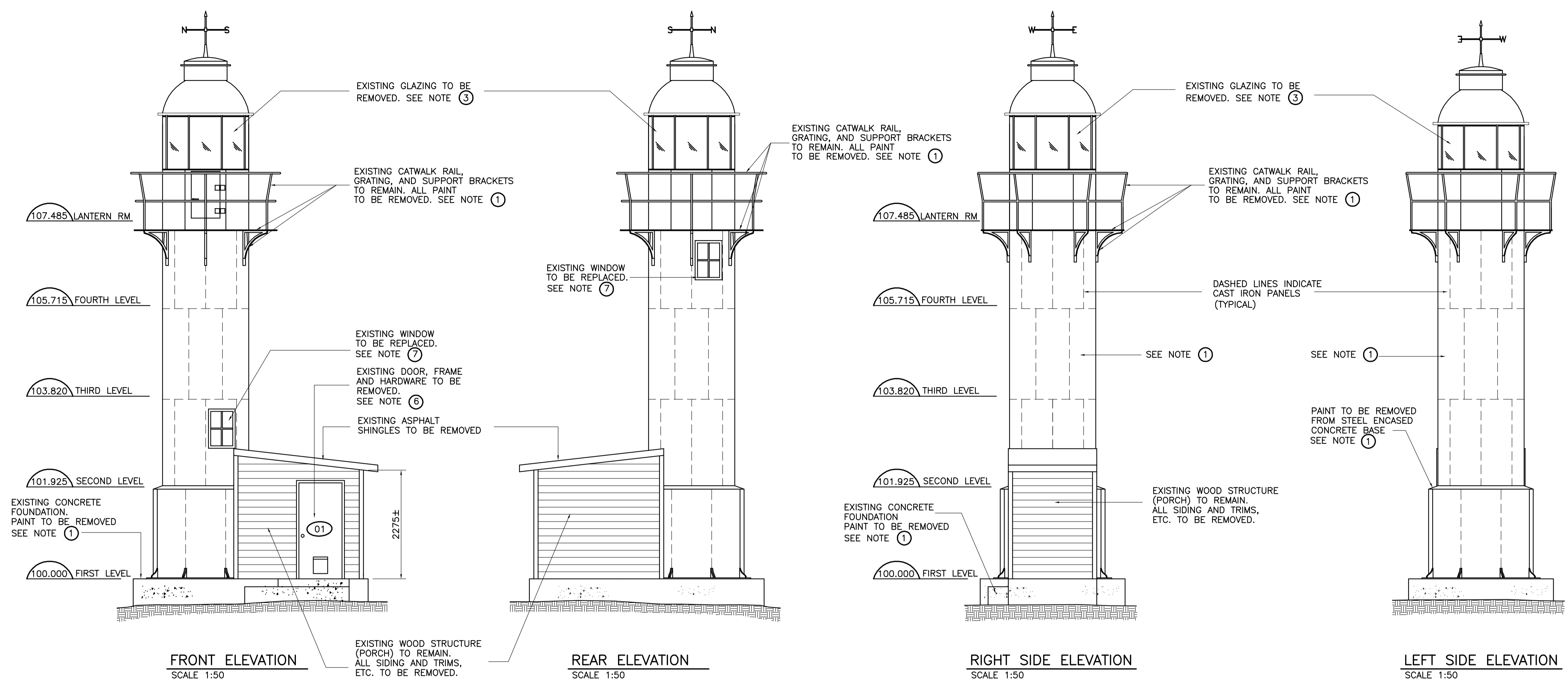
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date - date	FEB. 2015	checked - verifie	D.J. DICESARE
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project no. - projet no.	F6879-151004	drawing no. - no du dessin	1101101D008A1
		sheet - feuille	1/6

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Project - projet
CHANNEL HEAD LIGHT TOWER RESTORATION AND ASSOCIATED WORK 2015

Drawing - dessin
EXISTING ELEVATIONS DEMOLITION

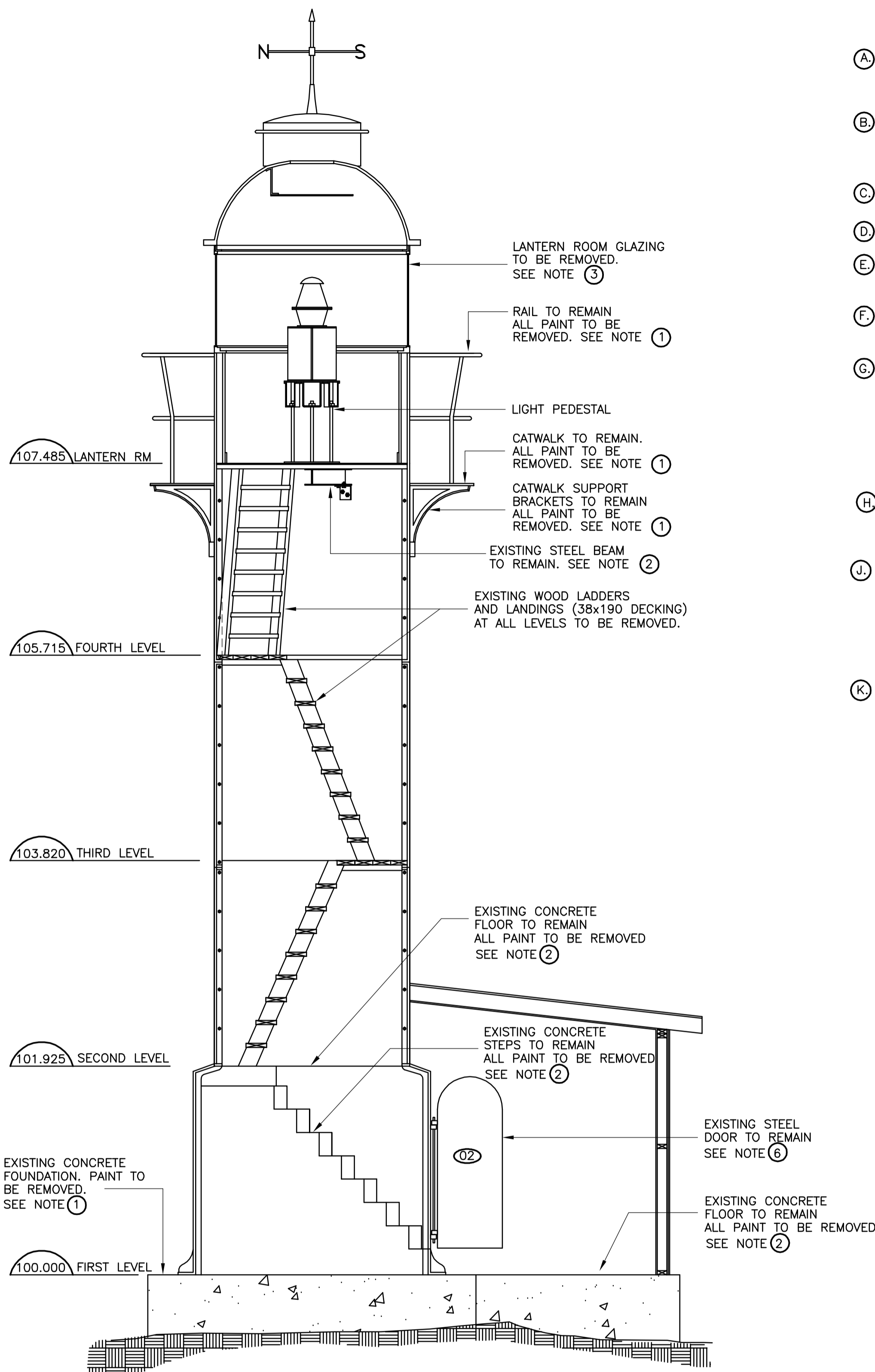
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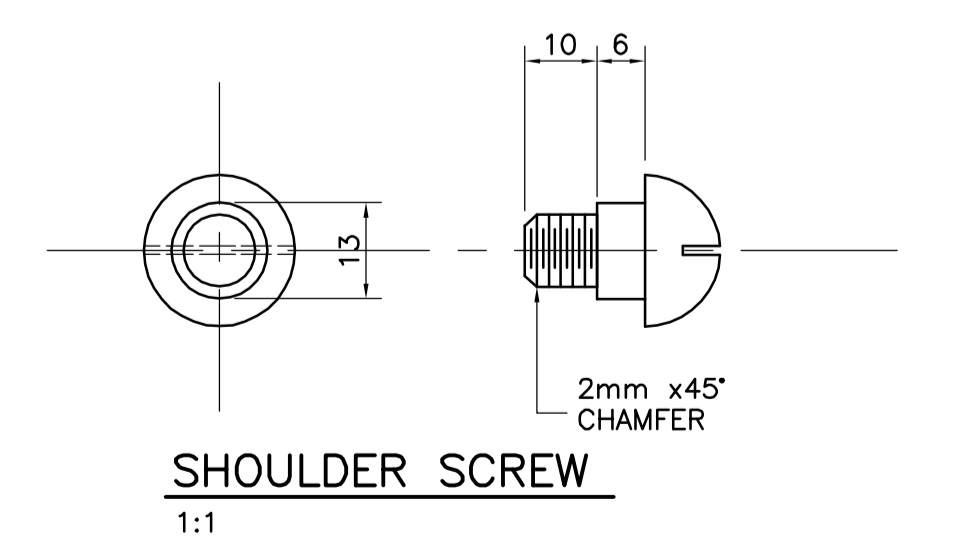
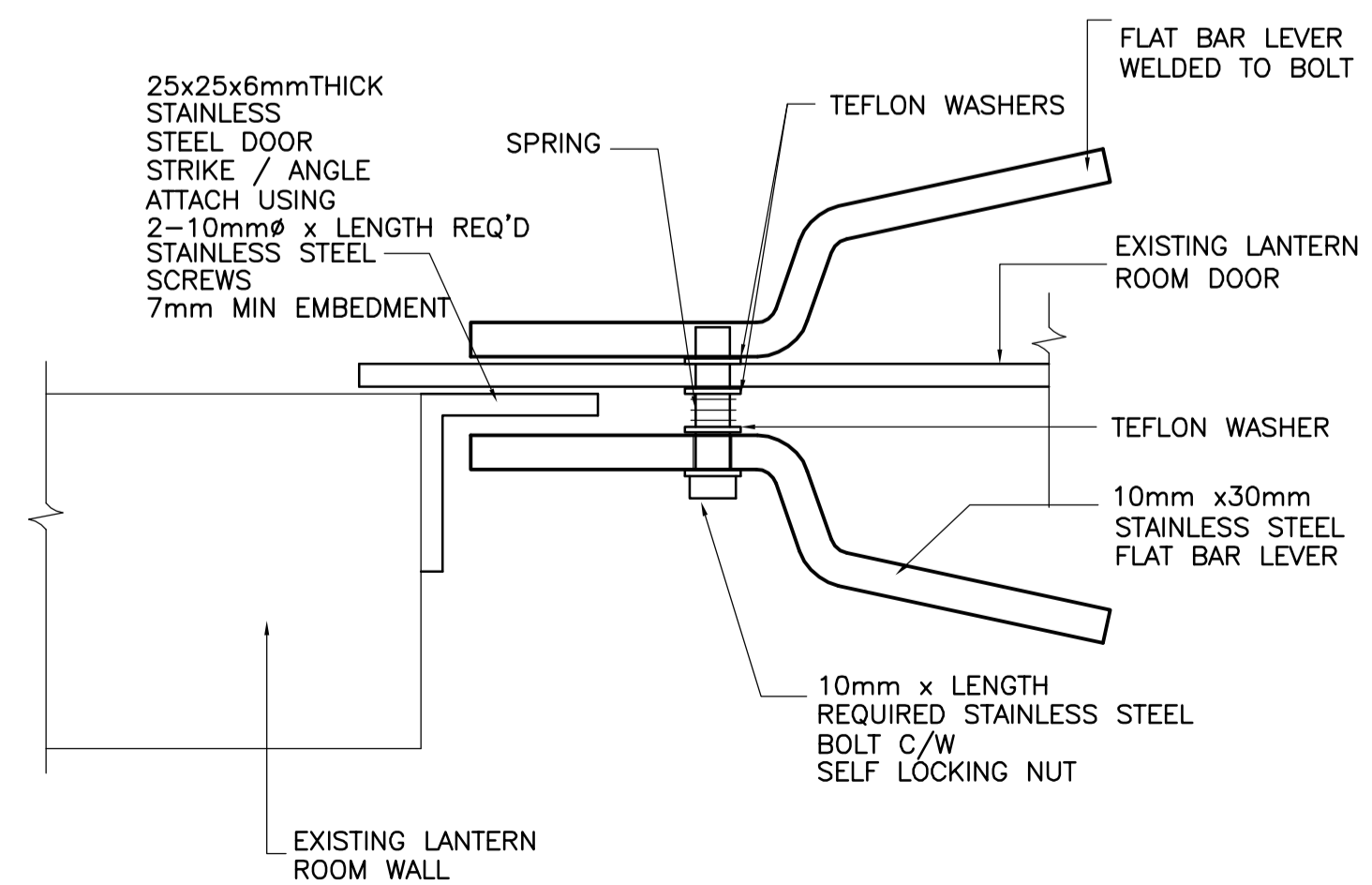
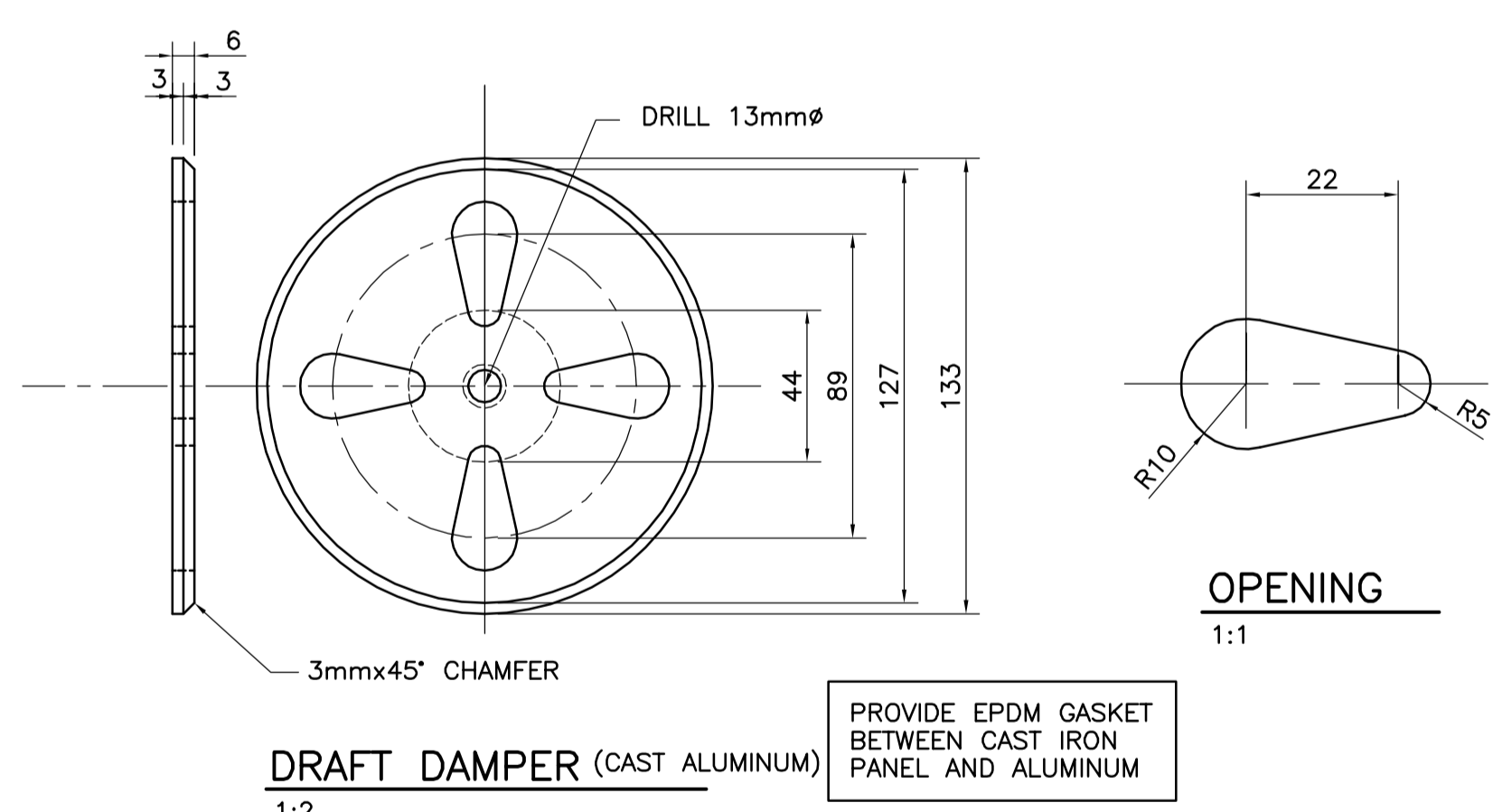
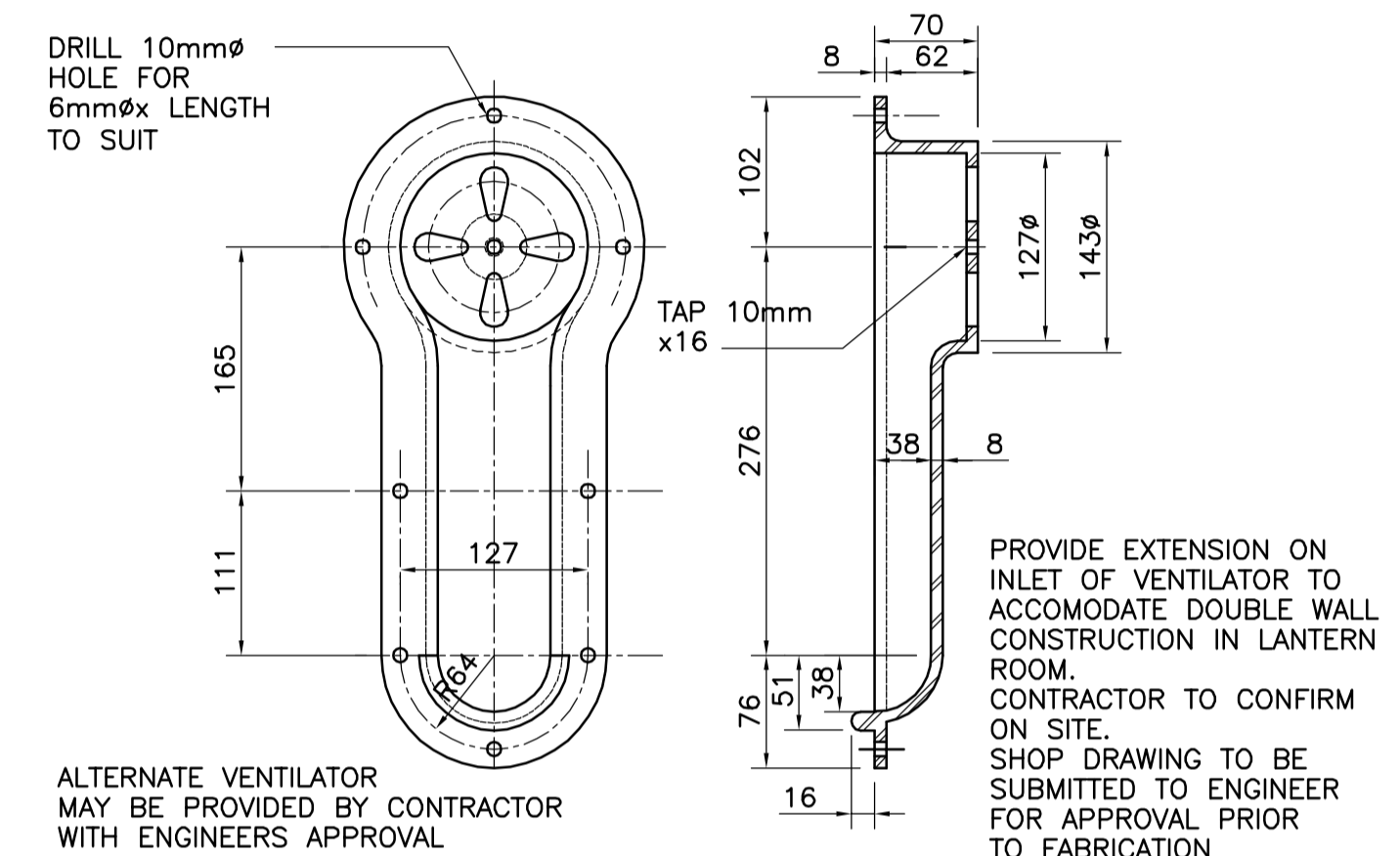
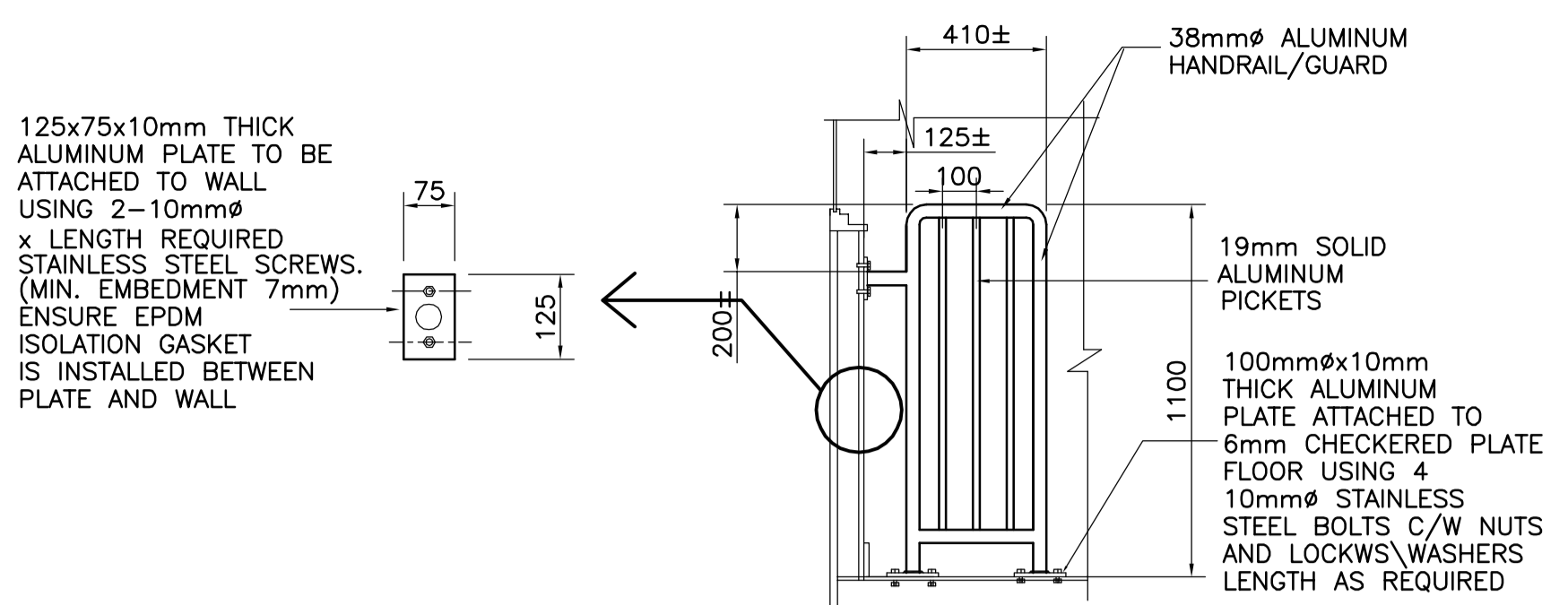


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LANTERN ROOM VENTILATOR ASSEMBLY
A4/A3

ATLANTIC ENGINEERING CONSULTANTS LTD.
 CIVIL, STRUCTURAL, MUNICIPAL, ELECTRICAL, MECHANICAL
 ENGINEERS, PLANNERS AND PROJECT MANAGERS

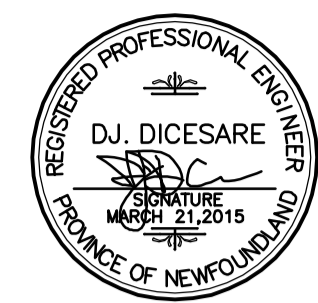
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Project - projet
CHANNEL HEAD LIGHT TOWER RESTORATION AND ASSOCIATED WORK 2015

Drawing - dessin
EXISTING SECTION DEMOLITION AND NEW DETAILS

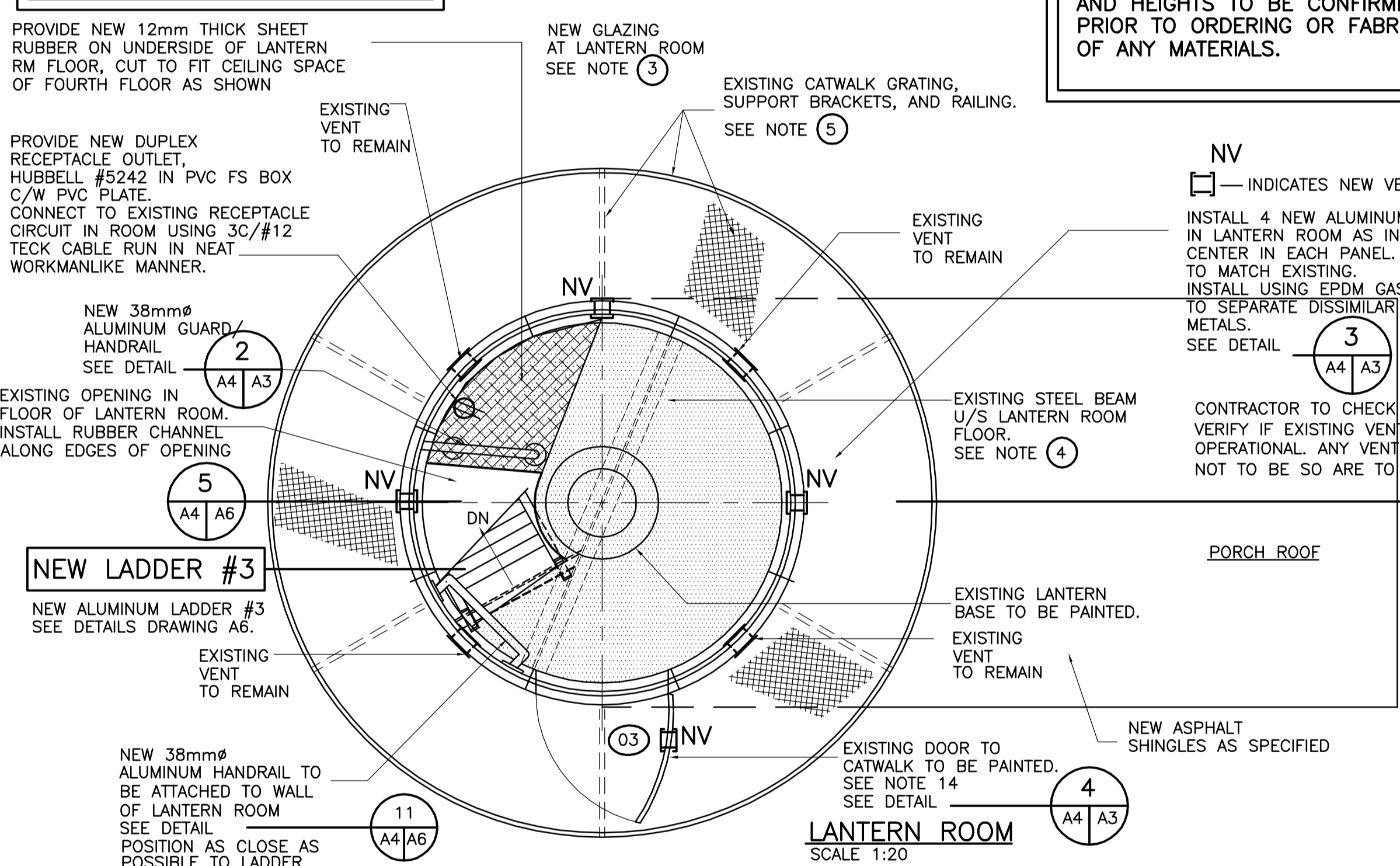
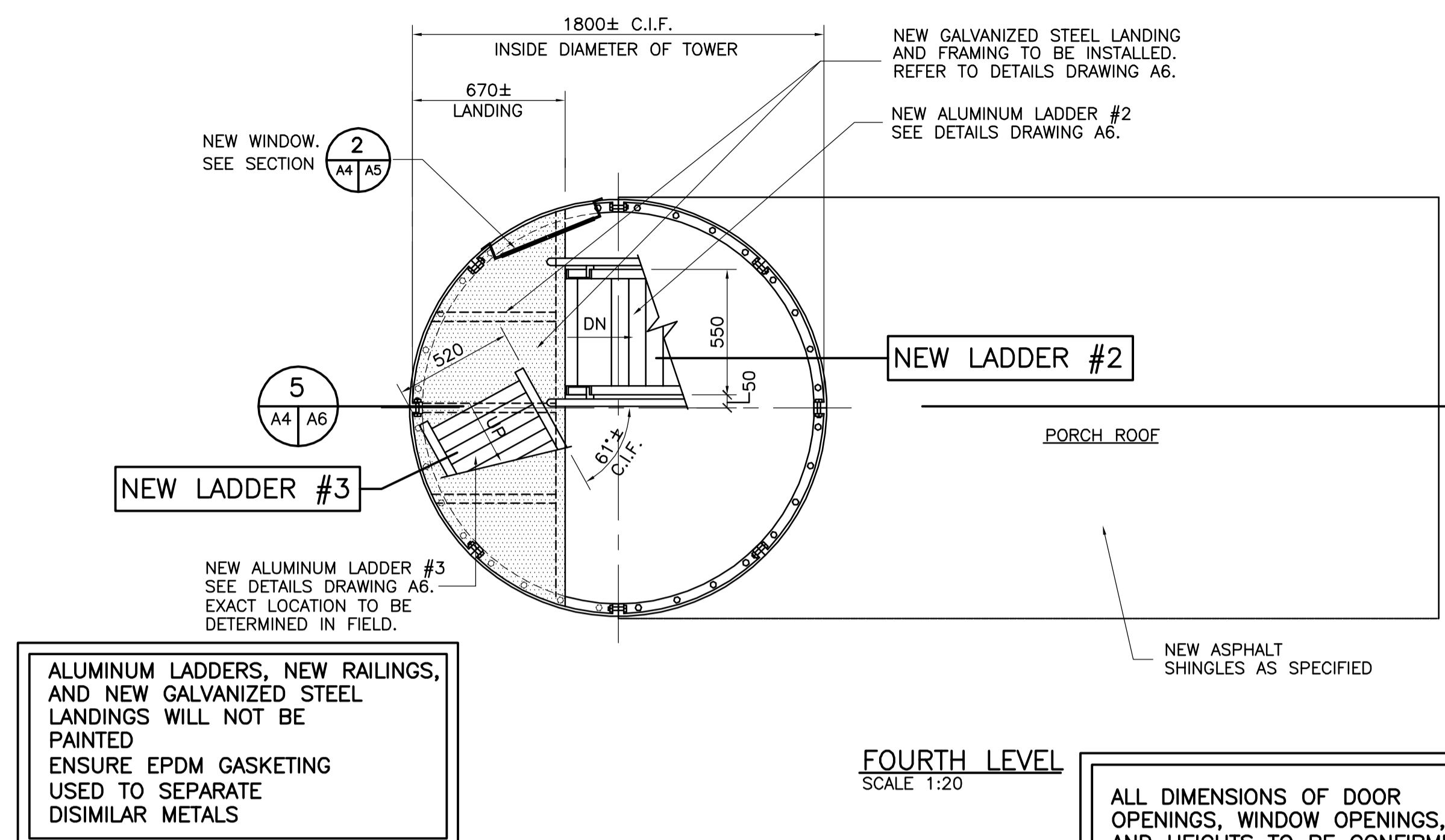
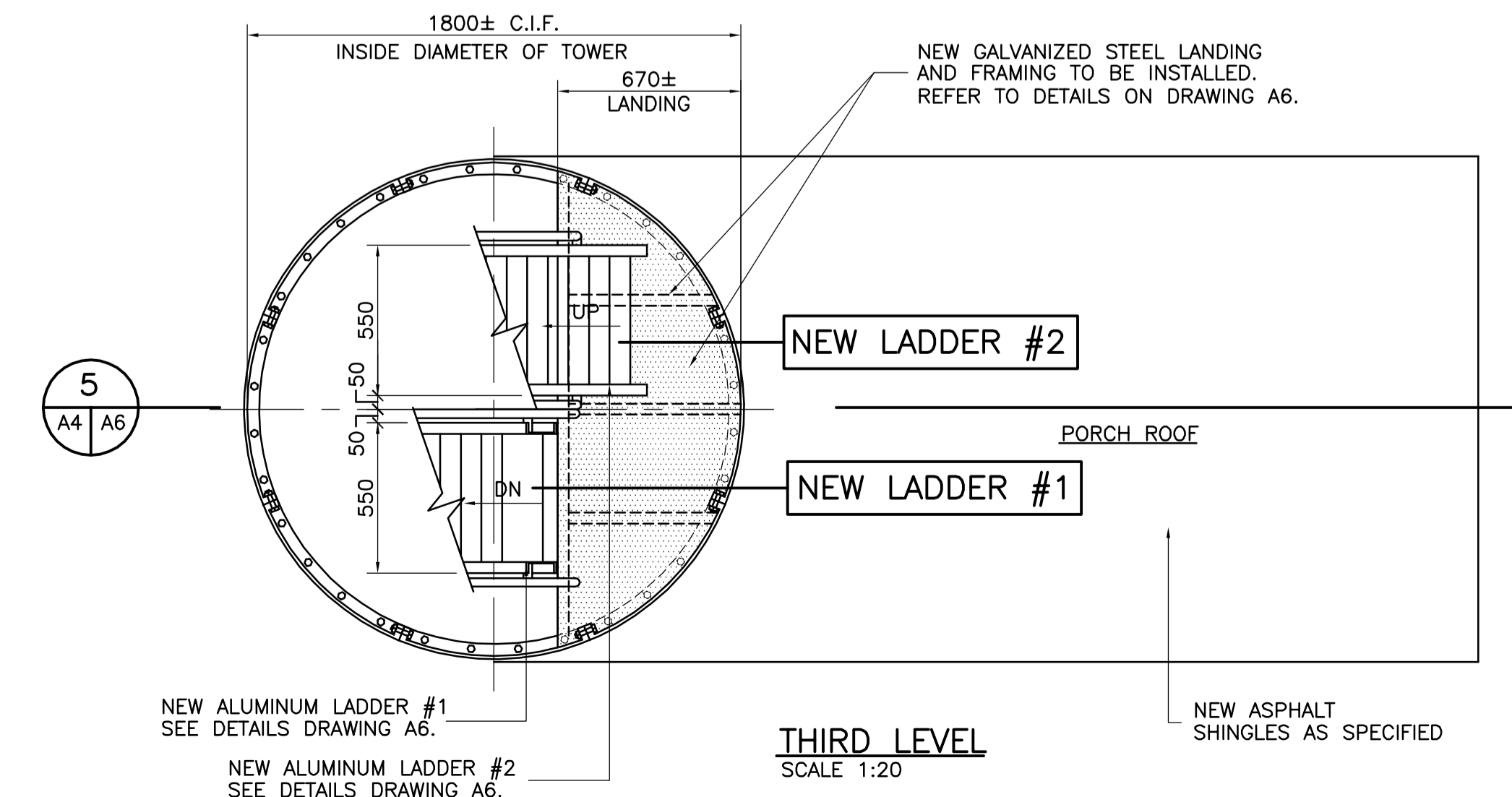
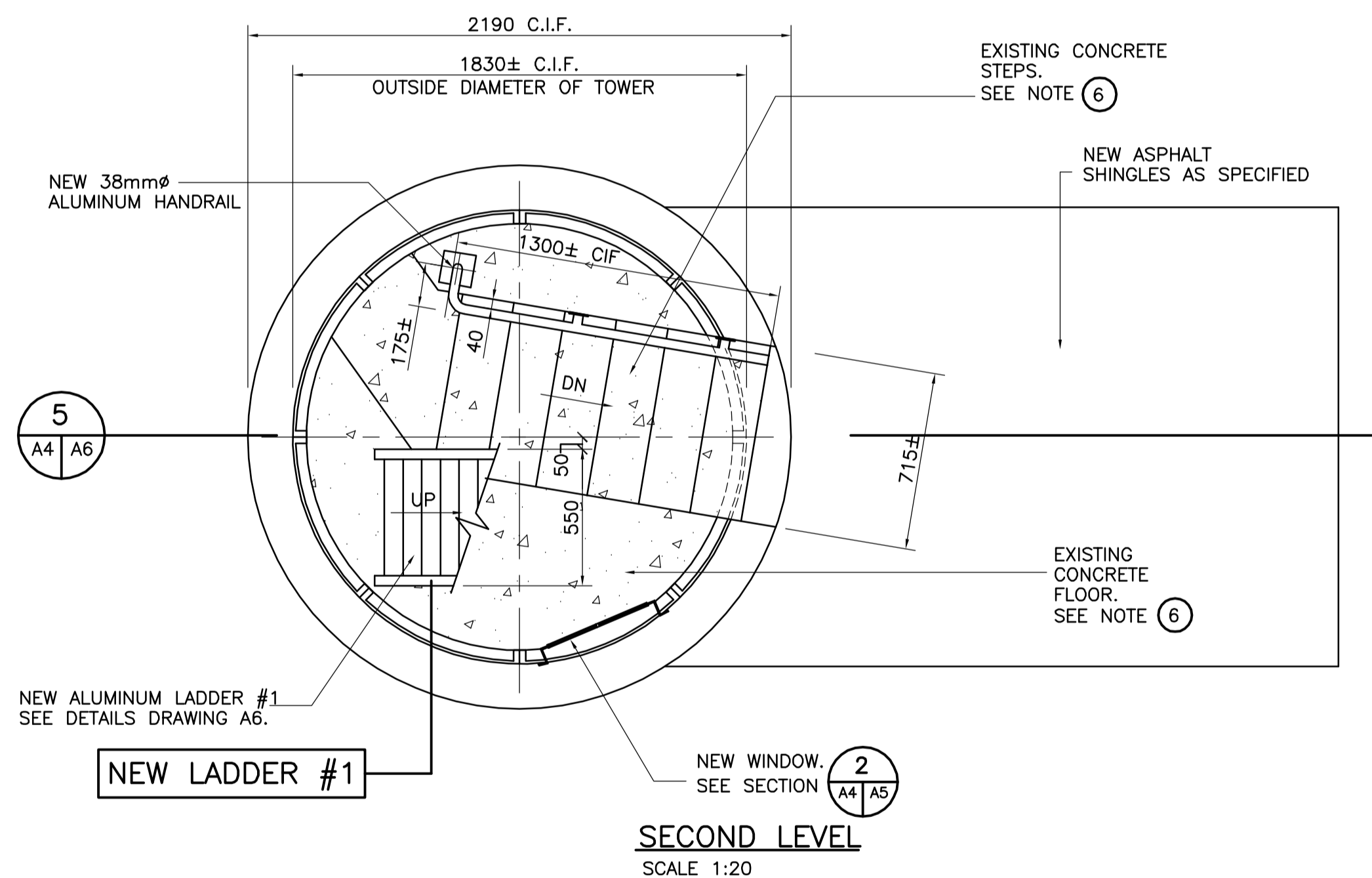
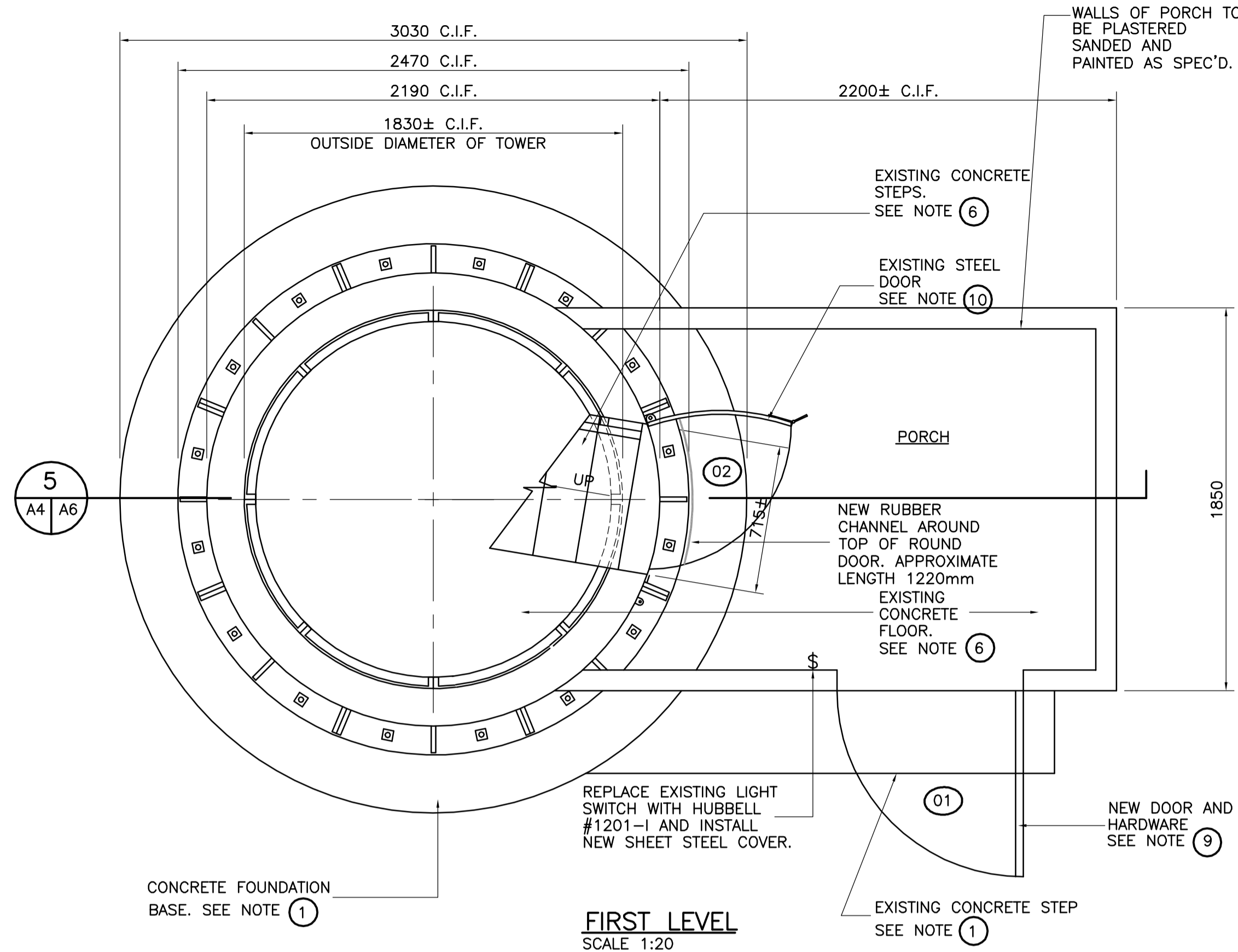
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THE FOLLOWING NOTES TO BE READ IN CONJUNCTION WITH THE DEMOLITION DRAWINGS AND NOTES IN GENERAL ALL PAINT INTERIOR AND EXTERIOR OF LIGHTHOUSE IS TO BE REMOVED USING METHODS AS OUTLINED IN SPEC SECTION 09 11 13.

- 1 ALL EXTERIOR SURFACES OF WALLS INCLUDING LANTERN RM TO BE PAINTED AS SPECIFIED. AT CONCRETE LOCATIONS ALL FORM TIES TO BE CHIPPED OUT AND RUST INHIBITOR TO BE APPLIED TO TIES. BONDING AGENT TO BE APPLIED AT EACH AREA AND GROUTED SOLID. SEE SPECIFICATIONS. ALL CRACKS IN FOUNDATION TO BE REPAIRED USING HYDRAULIC PATCHING COMPOUND SEE SPECIFICATIONS.
- 2 ALL INTERIOR SURFACES OF EXTERIOR WALLS OF TOWER, AND INTERIOR CAST IRON SURFACES OF LANTERN ROOM TO BE PAINTED AS SPECIFIED. ANY ALUMINUM SURFACES OF LANTERN TO BE LEFT UNPAINTED. ALL INTERIOR WALL AND CEILING IN "PORCH" TO BE PAINTED AS SPECIFIED.
- 3 ALL GLAZING IN LANTERN ROOM TO BE REMOVED AND REPLACED USING LEXAN XL CLEAR SHEET GLAZING. (OR APPROVED EQUAL). EXISTING BOLTS TO BE REMOVED FROM FRAMING. EXISTING GLAZING TO BE REMOVED AND NEW GLAZING INSTALLED. NEW BOLTS TO BE INSTALLED TO MATCH EXISTING AND ALL JOINTS IN PANELS TO BE RESEALED AND NEW GLAZING TO BE CAULKED AND SEALED WEATHERTIGHT.
- 4 LANTERN ROOM FLOOR, TOPSIDE AND UNDERSIDE INCLUDING SUPPORTING BEAM TO BE LEFT UNPAINTED.
- 5 CATWALK, RAILING AND SUPPORT BRACKETS TO BE PAINTED AS SPECIFIED.
- 6 ALL CONC. FLOORS AND CONC. STEPS TO BE PAINTED AS SPECIFIED. NON SLIP AGENT TO BE ADDED TO PAINT TO CREATE A NON SLIP SURFACE.
- 7 ENSURE ANY CRACKS, INDENTATIONS ETC. ARE REPAIRED TO MATCH EXISTING SURFACES.
- 8 ALL ALUMINUM WINDOWS TO BE REPLACED. SEE NEW WINDOW DRAWING A5.
- 9 DOOR 01 TO BE REPLACED WITH NEW DOOR - NEW DOOR - 1-914x2010x45mm STEEL INSULATED DOOR C/W PRESSED STEEL FRAME. HARDWARE TO BE AS FOLLOWS:
 1 CLOSER - LCN 1460 CUSH SB/TB
 SEX BOLT THROUGH BOLT 689
 1 LOCKSET - CORBIN CK 4251GRC 630
 3 HINGES - HAGER BB1191 114x101 NRP 630
 1 SET WEATHERSTRIPPING - 332CS 628
 1 DOOR SWEEP - 3452CP
 1 THRESHOLD - 2005CP x WIDTH
 1 LOUVRE - NAILOR MODEL 61DGD
 SIZE 200x200mm
 CORROSION RESISTANT STEEL
- 10 DOOR 02 TO BE PAINTED AS SPECIFIED.
- 11 ALL BOLTS INCLUDING ANCHOR BOLTS AND BOLTS AT PANEL JOINTS TO BE COATED WITH A SEALING COMPOUND PRIOR TO PAINTING. SEE SPECIFICATIONS.
- 12 EXISTING LIGHTS TO BE REMOVED FROM U/S OF EXISTING WOOD LANDINGS AND REINSTALLED TO U/S NEW LANDING WITH WOOD BLOCKING AS REQUIRED.
- 13 ALL EDGES OF LADDER TREADS TO BE GROUND TO A SMOOTH ROUNDED SURFACE.
- 14 NEW LATCHING DEVICE TO BE INSTALLED ON DOOR 03



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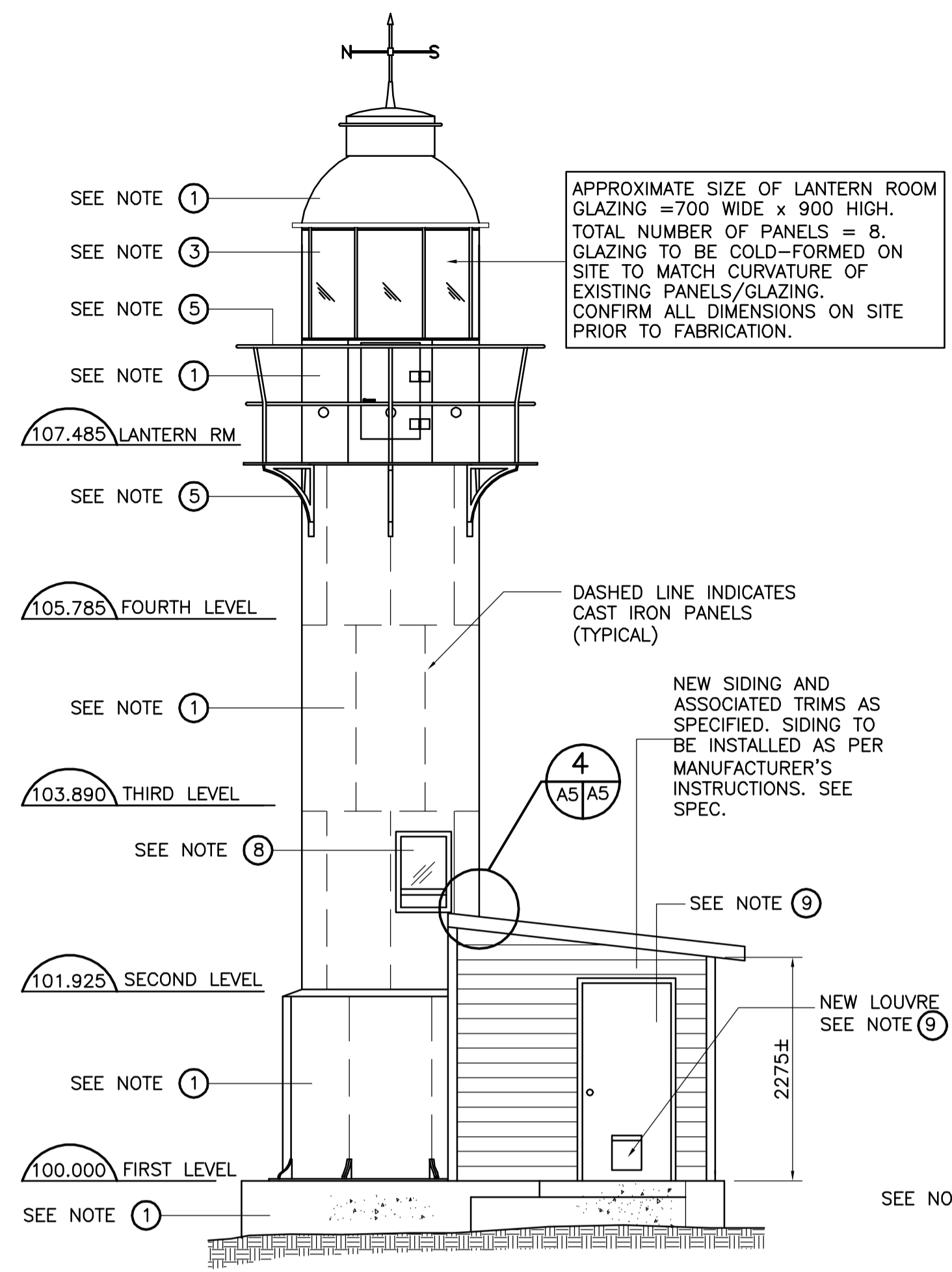
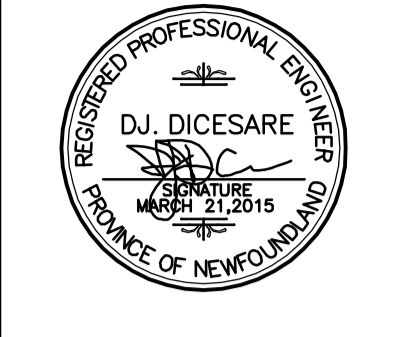
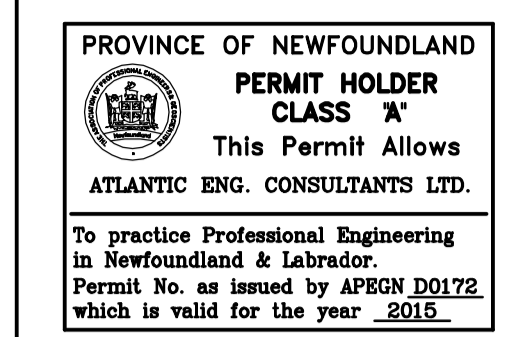
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no.	revision	date	by	approved
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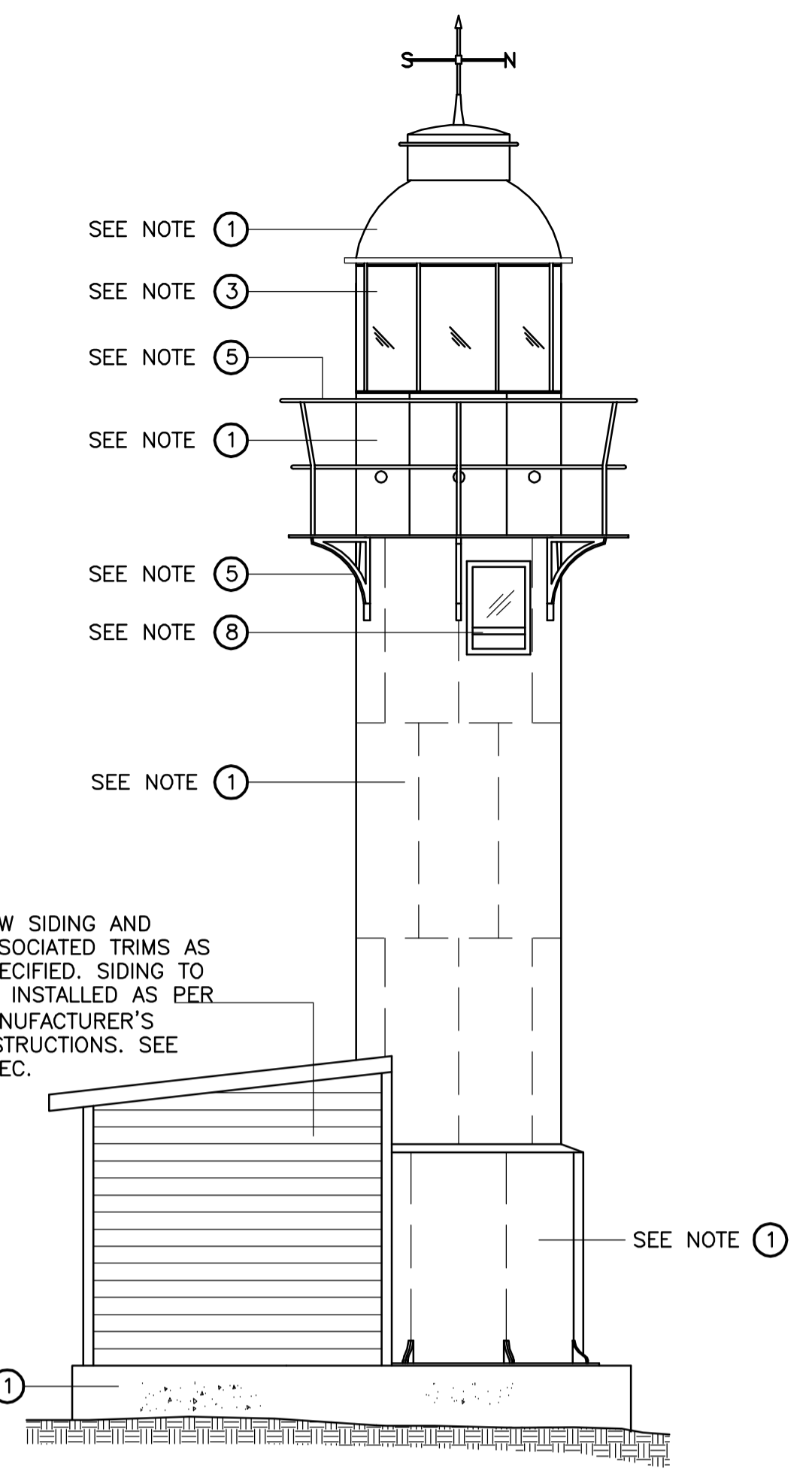
Drawing - dessin

NEW FLOOR PLANS

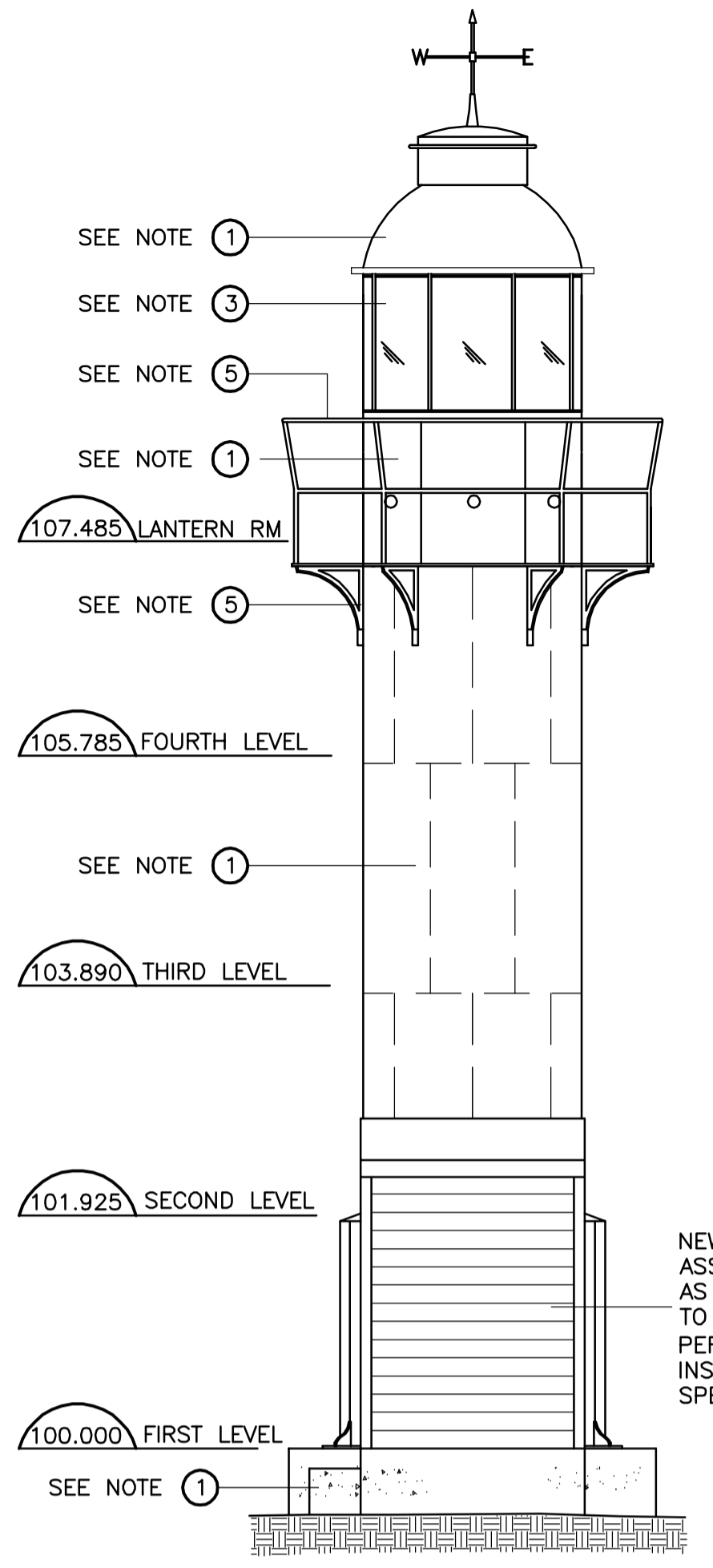
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date - date	FEB. 2015	checked - vérifié	D.J. DICESARE
scale - échelle	1:20	approved for tender - approuvé pour l'offre	
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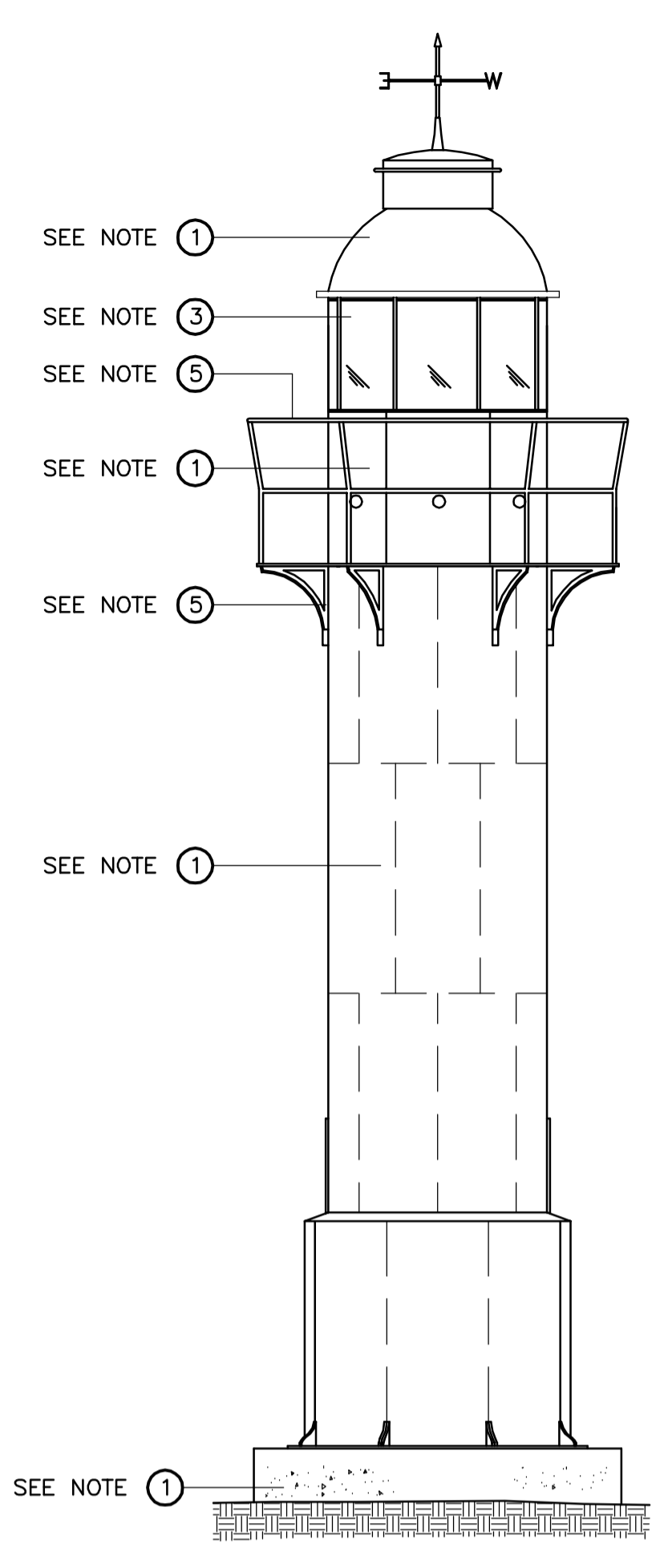
FRONT ELEVATION
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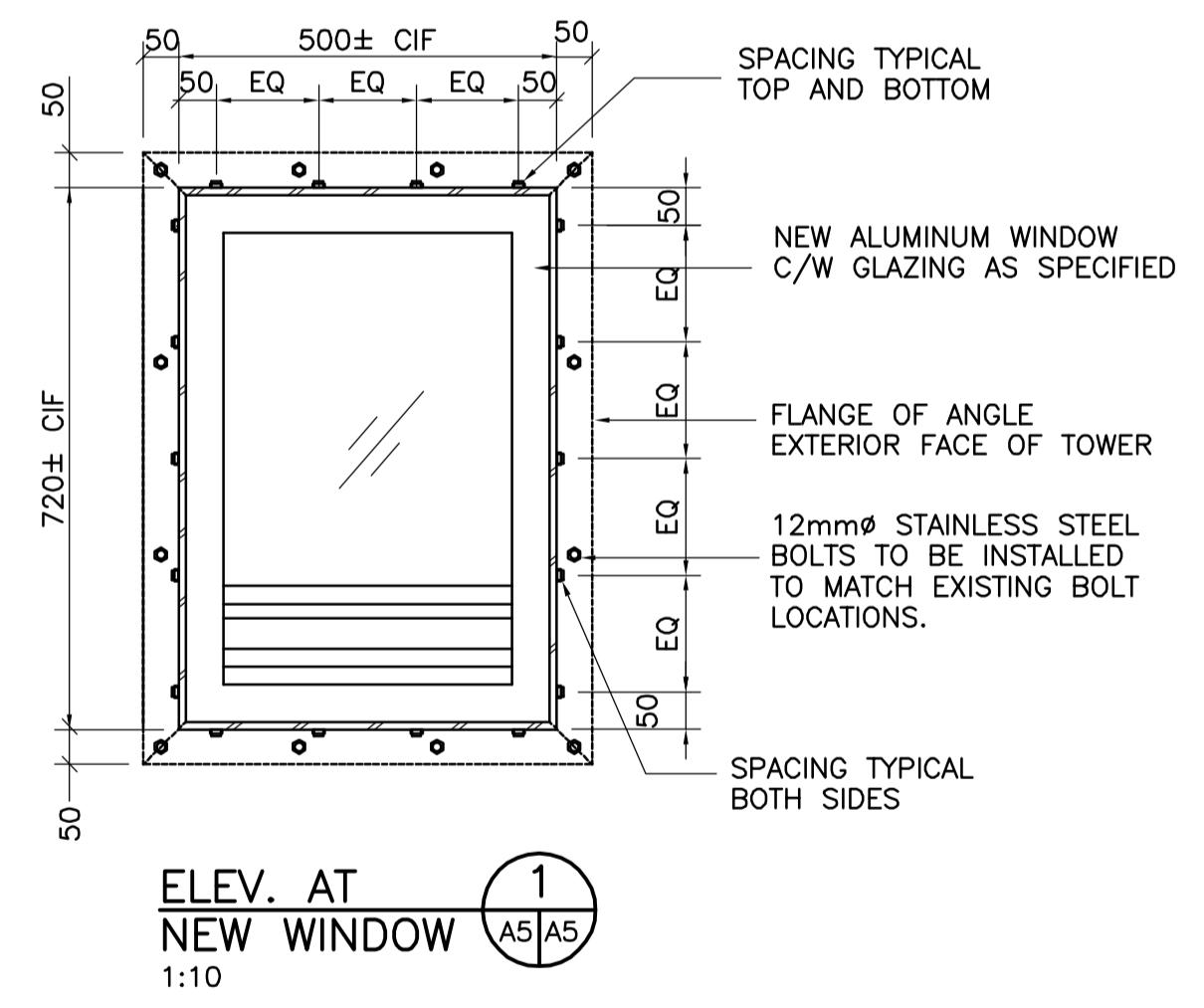
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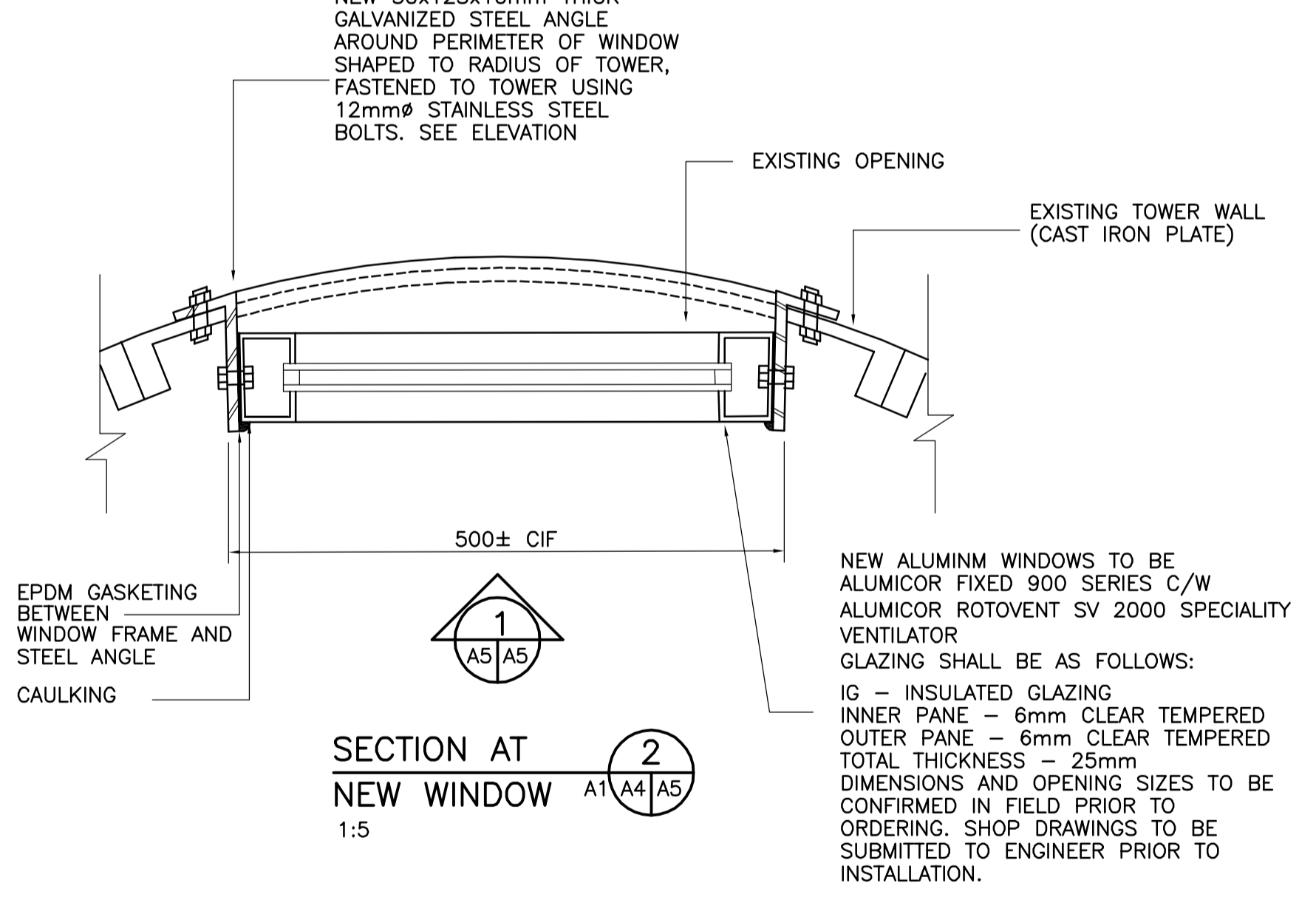
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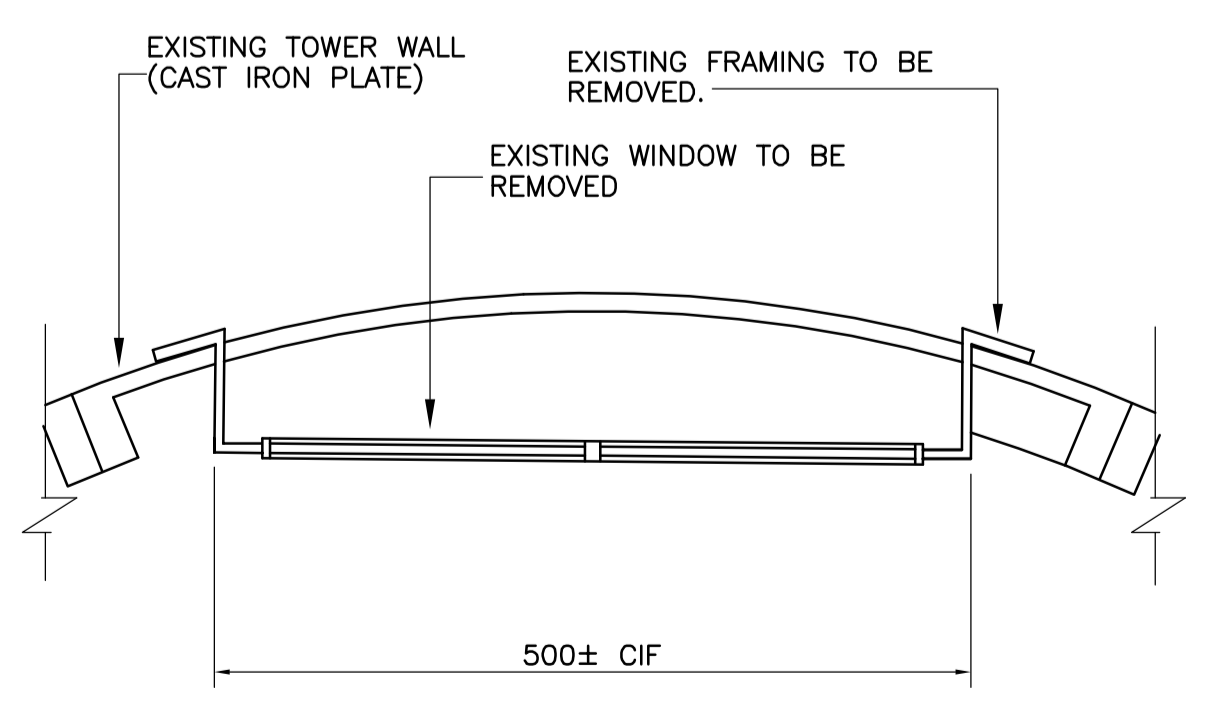
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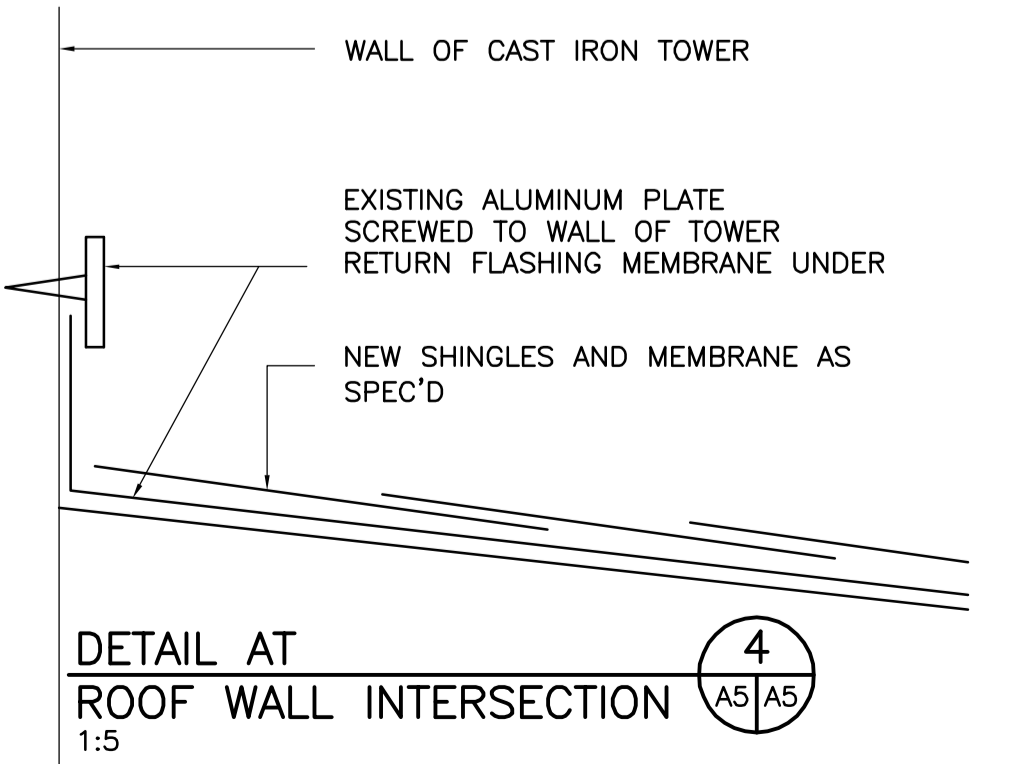
ELEV. AT NEW WINDOW
1:10



SECTION AT NEW WINDOW
1:5



SECTION AT EXISTING WINDOW
1:5



DETAIL AT ROOF WALL INTERSECTION
1:5

GENERAL NOTES

- (A) 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.
- (B) 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.
- (C) CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ITEMS IN AN APPROVED MANNER.
- (D) ALL DIMENSIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF LADDERS AND LANDINGS.
- (E) ANY REBAR EXPOSED TO BE PROTECTED FROM CORROSION USING RUST INHIBITOR. SEE SPECIFICATIONS.
- (F) 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.
- (G) ALL AREAS OF LIGHT TOWER AND PORCH INCLUDING ALL ELECTRICAL TO BE COMPLETELY PROTECTED DURING ANY WORK INCLUDING JET BLASTING AND PAINTING. ANY DAMAGE THAT OCCURS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED AT THE CONTRACTORS EXPENSE. ENSURE EXISTING ASPHALT SHINGLES AND EXISTING FLASHING AT ROOF TO TOWER INTERSECTION ARE PROTECTED THROUGHOUT ENTIRE JOB.
- (H) FOLLOWING CLEANING PROCESS IF ANY IMPERFECTIONS OR MINOR PERFORATIONS EXIST CONTRACTOR TO FILL / REPAIR AND BURNISH ANY ROUGH EDGES PRIOR TO FINISHING.
- (J) FASTEN ALL THREE EXISTING DOWN CONDUCTORS FOR LIGHTNING PROTECTION SYSTEM TO THE EXISTING DRAIN PIPE AT FOUR EQUIDISTANT POINTS FROM THE EXTERIOR PLATFORM TO THE ROOF. TO PREVENT GALVANIC ACTION PROVIDE A 300mm LONG, 4mm THICK, RUBBER SLEEVE AROUND THE DRAIN PIPE AT EACH ATTACHMENT POINT AND SECURE CABLES TO PIPE USING TWO NYLON COATED STAINLESS STEEL CABLE TIES TOP & BOTTOM TYPE TYSC OR APPROVED EQUAL AT EACH SLEEVE.
- (K) RECONNECT EXISTING THREE LIGHTNING DOWN CONDUCTORS TO EXISTING GROUND ROD SYSTEM USING THE THERMIT WELDING PROCESS. (CADWELD)

THE FOLLOWING NOTES TO BE READ IN CONJUNCTION WITH THE DEMOLITION DRAWINGS AND NOTES IN GENERAL ALL PAINT INTERIOR AND EXTERIOR OF LIGHTHOUSE IS TO BE REMOVED USING METHODS AS OUTLINED IN SPEC SECTION 09 91 13.

- (1) ALL EXTERIOR SURFACES OF WALLS, INCLUDING LANTERN RM. TO BE PAINTED AS SPECIFIED. AT CONCRETE LOCATIONS, ALL FORM TIES TO BE CHIPPED OUT AND RUST INHIBITOR TO BE APPLIED TO TIES. BONDING AGENT TO BE APPLIED AT EACH AREA AND GROUTED SOLID. SEE SPECIFICATIONS. ALL CRACKS IN FOUNDATION WALL TO BE REPAIRED USING HYDRAULIC PATCHING COMPOUND. SEE SPECIFICATIONS.
- (2) ALL INTERIOR SURFACES OF EXTERIOR WALLS OF TOWER, AND INTERIOR CAST IRON SURFACES OF LANTERN ROOM TO BE PAINTED AS SPECIFIED. ANY ALUMINUM SURFACES OF LANTERN TO BE LEFT UNPAINTED. ALL INTERIOR WALLS AND CEILING IN "PORCH" TO BE PAINTED AS SPECIFIED.
- (3) ALL GLAZING IN LANTERN ROOM TO BE REMOVED AND REPLACED USING LEXAN XL CLEAR SHEET GLAZING. (OR APPROVED EQUAL). EXISTING BOLTS TO BE REMOVED FROM FRAMING. EXISTING GLAZING TO BE REMOVED AND NEW GLAZING INSTALLED. NEW BOLTS TO BE INSTALLED TO MATCH EXISTING AND ALL JOINTS IN PANELS TO BE RESEALED AND NEW GLAZING TO BE CAULKED AND SEALED WEATHERTIGHT.
- (4) LANTERN ROOM FLOOR, TOPSIDE AND UNDERSIDE INCLUDING SUPPORTING BEAM TO BE PAINTED AS SPECIFIED.
- (5) CATWALK, RAILING AND SUPPORT BRACKETS TO BE PAINTED AS SPECIFIED.
- (6) ALL CONC. FLOORS AND CONC. STEPS TO BE PAINTED AS SPECIFIED. NON SLIP AGENT TO BE ADDED TO PAINT TO CREATE A NON SLIP SURFACE.
- (7) ENSURE ANY CRACKS, INDENTATIONS ETC. ARE REPAIRED TO MATCH EXISTING SURFACES.
- (8) ALL ALUMINUM WINDOWS TO BE REPLACED. SEE NEW WINDOW DRAWING AS.
- (9) DOOR 01 TO BE REPLACED WITH NEW DOOR
NEW DOOR - 1-914x2010x45mm STEEL INSULATED DOOR C/W PRESSED STEEL FRAME
HARDWARE TO BE AS FOLLOWS:
1 CLOSER - LCN 1460 CUSH SB/TB
SEX BOLT THROUGH BOLT 689
1 LOCKSET - CORBIN CK 4251GRC 630
3 HINGES - HAGER BB1191 114x101 NRP 630
1 SET WEATHERSTRIPPING - 332CS 628
1 DOOR SWEEP - 3452CP
1 THRESHOLD - 2005CP x WIDTH
1 LOUVRE - NAILOR MODEL 61DGD
SIZE 200x200mm
CORROSION RESISTANT STEEL
- (10) DOOR 02 TO BE PAINTED AS SPECIFIED.
- (11) ALL BOLTS INCLUDING ANCHOR BOLTS AND BOLTS AT PANEL JOINTS TO BE COATED WITH A SEALING COMPOUND PRIOR TO PAINTING. SEE SPECIFICATIONS.
- (12) EXISTING LIGHTS TO BE REMOVED FROM U/S OF EXISTING WOOD LANDINGS AND REINSTALLED TO U/S NEW LANDING WITH WOOD BLOCKING AS REQUIRED.
- (13) ALL EDGES OF LADDER TREADS TO BE GROUND TO A SMOOTH ROUNDED SURFACE.
- (14) NEW LATCHING DEVICE TO BE INSTALLED ON DOOR #3

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Drawing - dessin
NEW ELEVATIONS AND WINDOW DETAILS

drawn - dessiné	C.R.	designed - dessinée par	D.J. DICESARE
date - date	FEB. 2015	checked - vérifié	D.J. DICESARE
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