

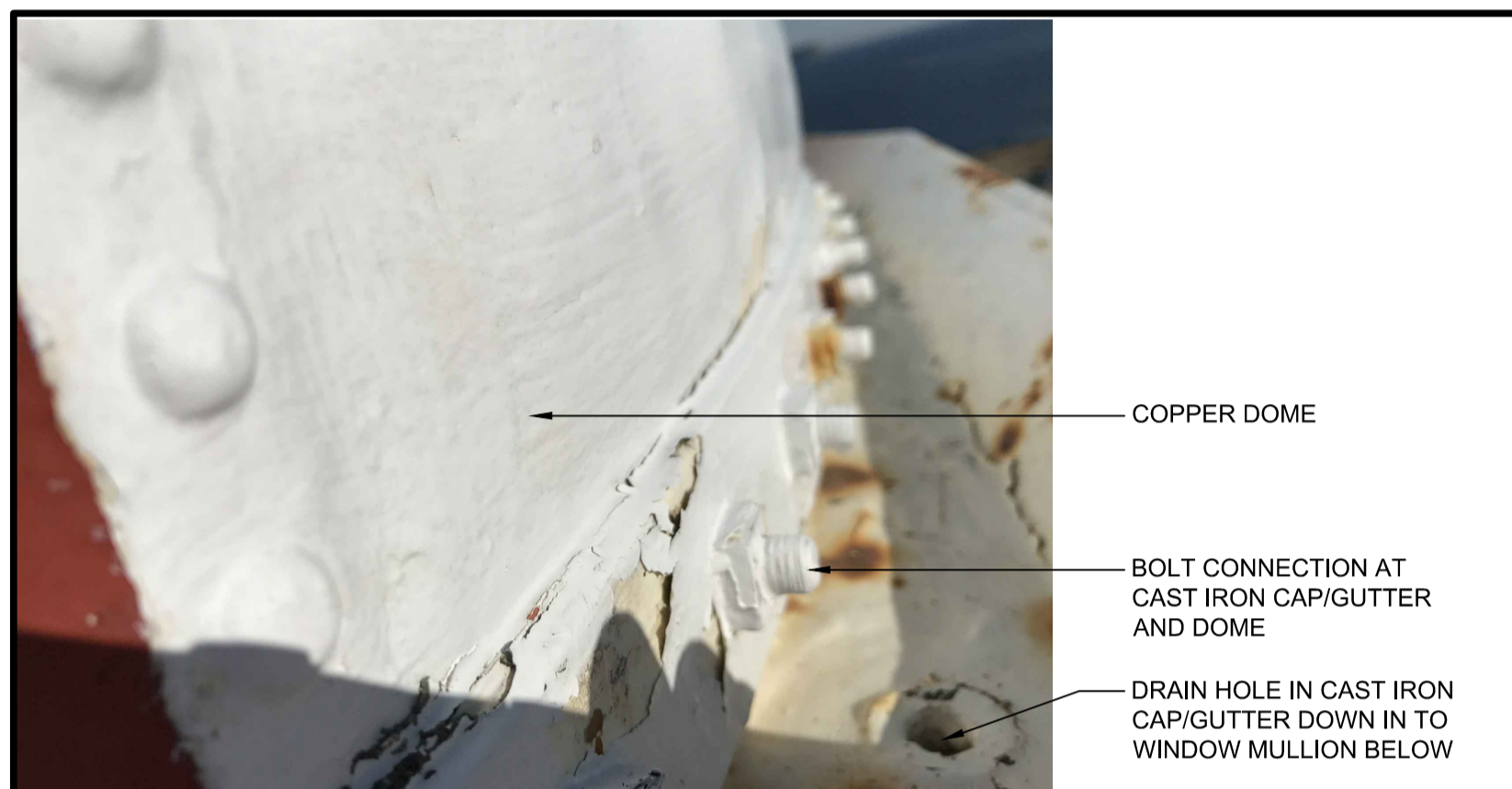


CAST IRON MULLION
BRASS STRIPS w/ FASTENERS

WINDOW - EXTERIOR AT SILL/MULLION

SCALE: N.T.S.

H
A6



COPPER DOME
BOLT CONNECTION AT CAST IRON CAP/GUTTER AND DOME
DRAIN HOLE IN CAST IRON CAP/GUTTER DOWN IN TO WINDOW MULLION BELOW

DOME/GUTTER - EXTERIOR BOLT CONNECTION

SCALE: N.T.S.

G
A6

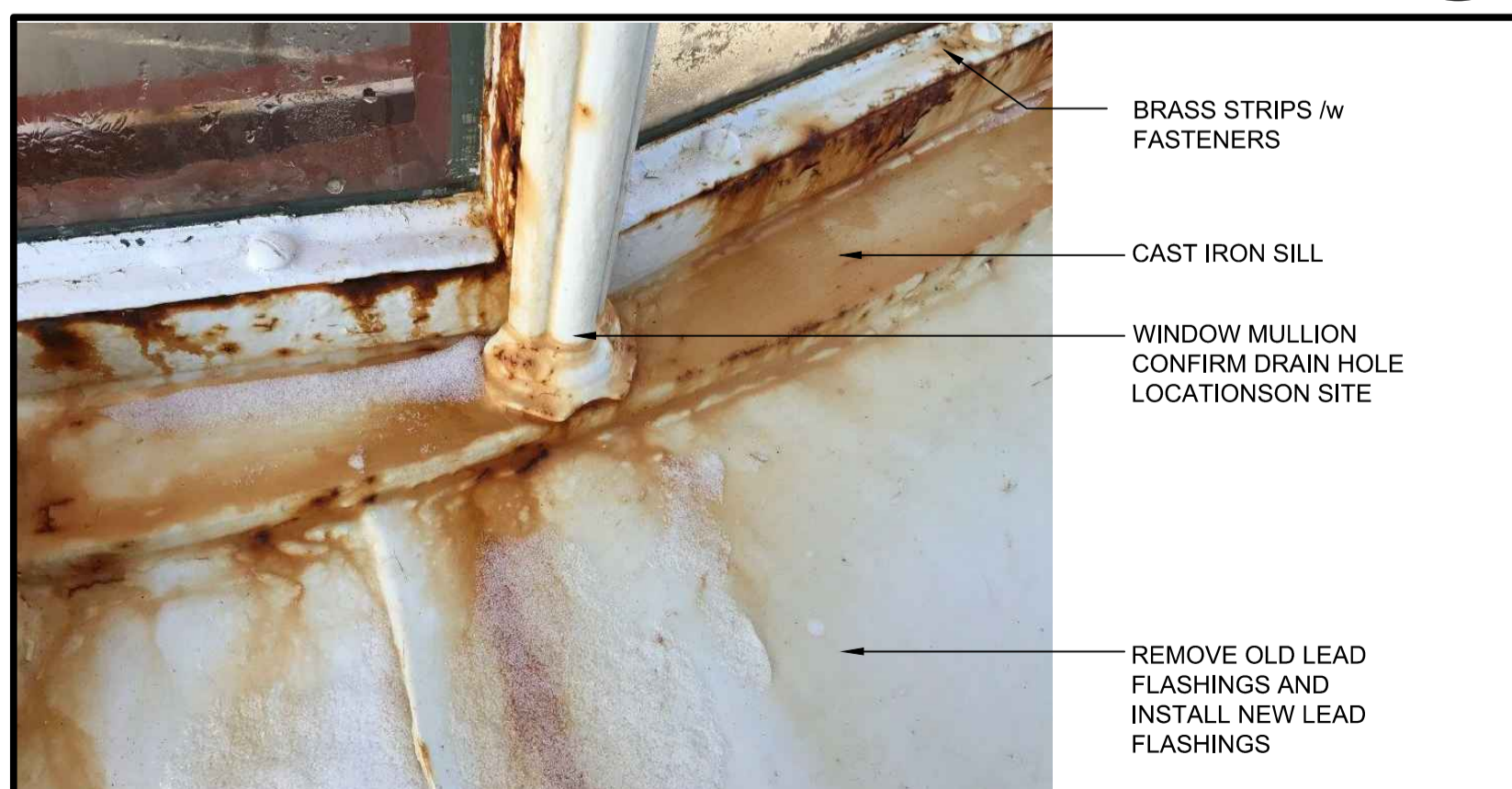


CAST IRON CAP/GUTTER
BRASS STRIPS w/ FASTENERS
CAST IRON MULLION

DOME - EXTERIOR GLAZING WINDOW HEAD

SCALE: N.T.S.

F
A6

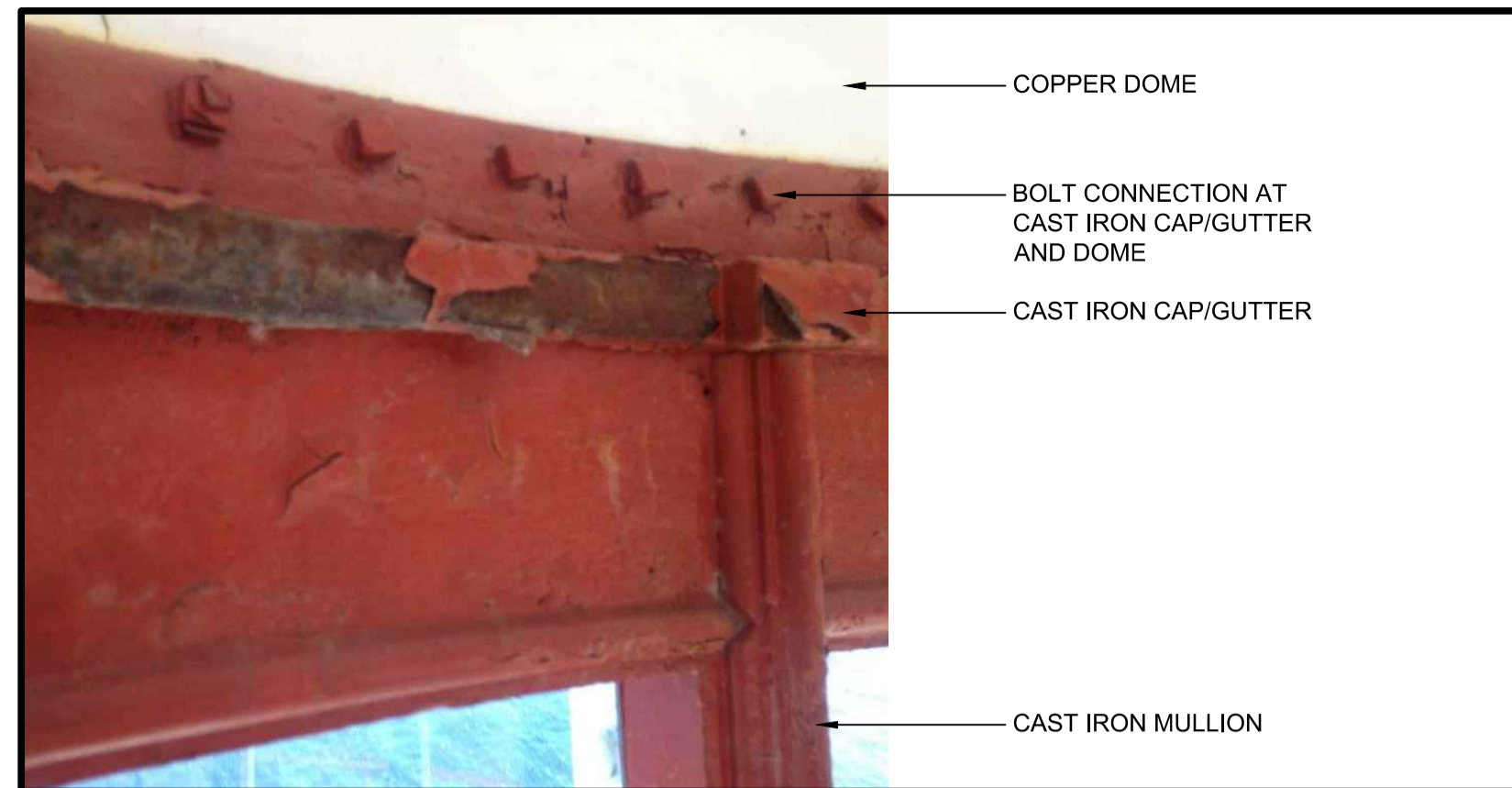


BRASS STRIPS w/ FASTENERS
CAST IRON SILL
WINDOW MULLION CONFIRM DRAIN HOLE LOCATION ON SITE
REMOVE OLD LEAD FLASHINGS AND INSTALL NEW LEAD FLASHINGS

DOME - EXTERIOR GLAZING WINDOW SILL

SCALE: N.T.S.

E
A6

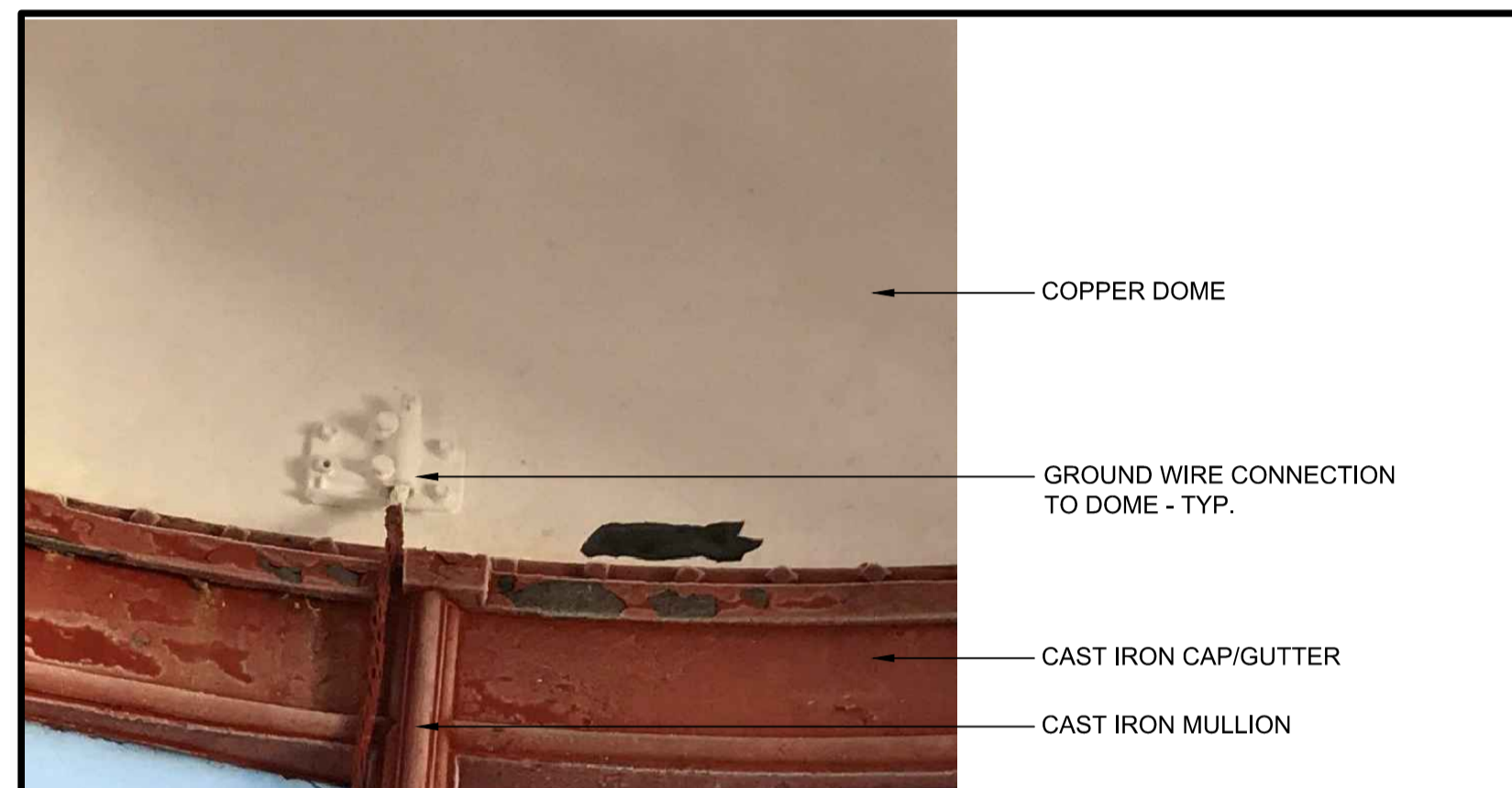


COPPER DOME
BOLT CONNECTION AT CAST IRON CAP/GUTTER AND DOME
CAST IRON CAP/GUTTER
CAST IRON MULLION

DOME - INTERIOR GLAZING HEAD AT BOLT CONNECTION

SCALE: N.T.S.

D
A6

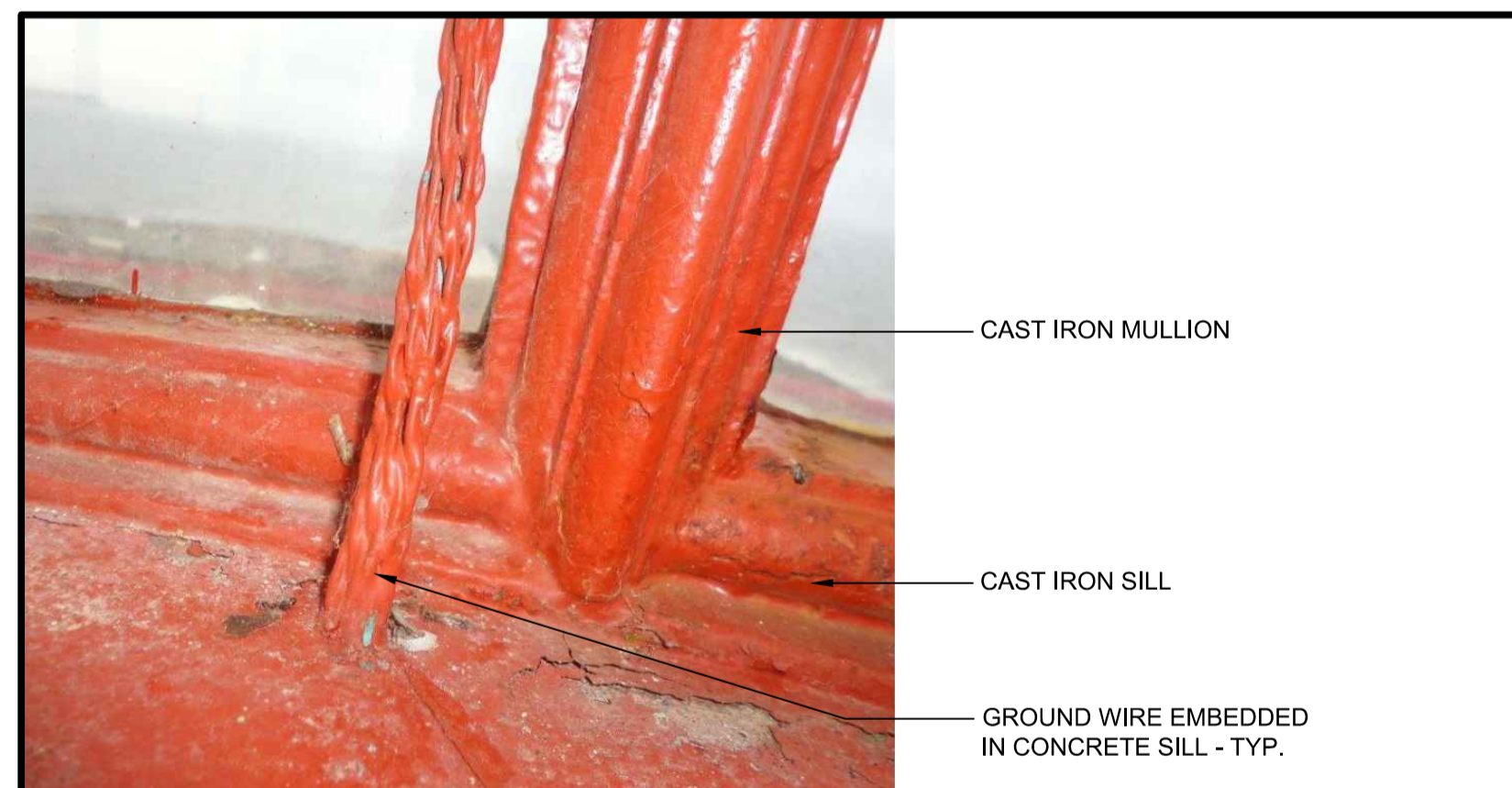


COPPER DOME
GROUND WIRE CONNECTION TO DOME - TYP.
CAST IRON CAP/GUTTER
CAST IRON MULLION

DOME - INTERIOR GLAZING HEAD AT GROUND WIRE

SCALE: N.T.S.

C
A6

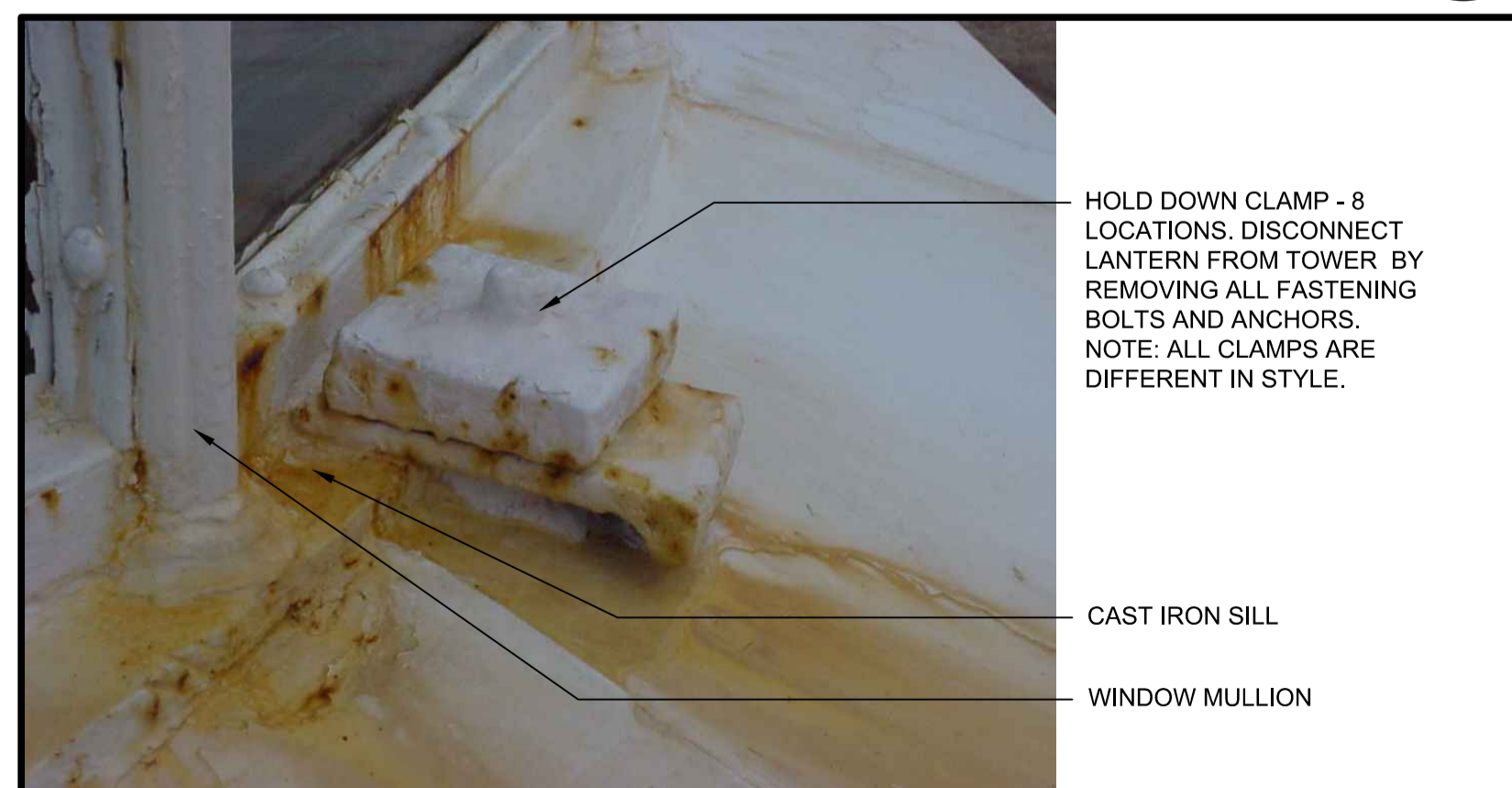


CAST IRON MULLION
CAST IRON SILL
GROUND WIRE EMBEDDED IN CONCRETE SILL - TYP.

DOME - INTERIOR GLAZING SILL AT GROUND WIRE

SCALE: N.T.S.

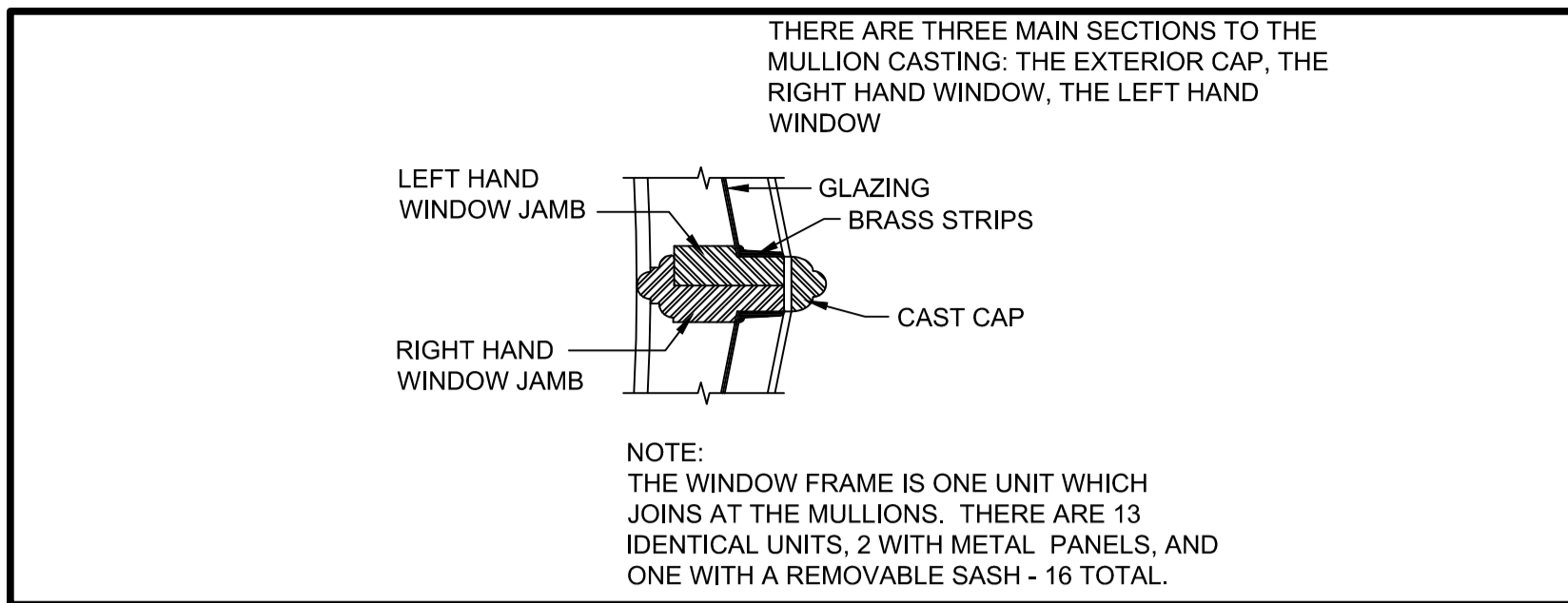
B
A6



HOLD DOWN CLAMP - 8 LOCATIONS. DISCONNECT LANTERN FROM TOWER BY REMOVING ALL FASTENING BOLTS AND ANCHORS. NOTE: ALL CLAMPS ARE DIFFERENT IN STYLE.
CAST IRON SILL
WINDOW MULLION

HOLD DOWN CLAMP AT DOME - TYP.

A
A6

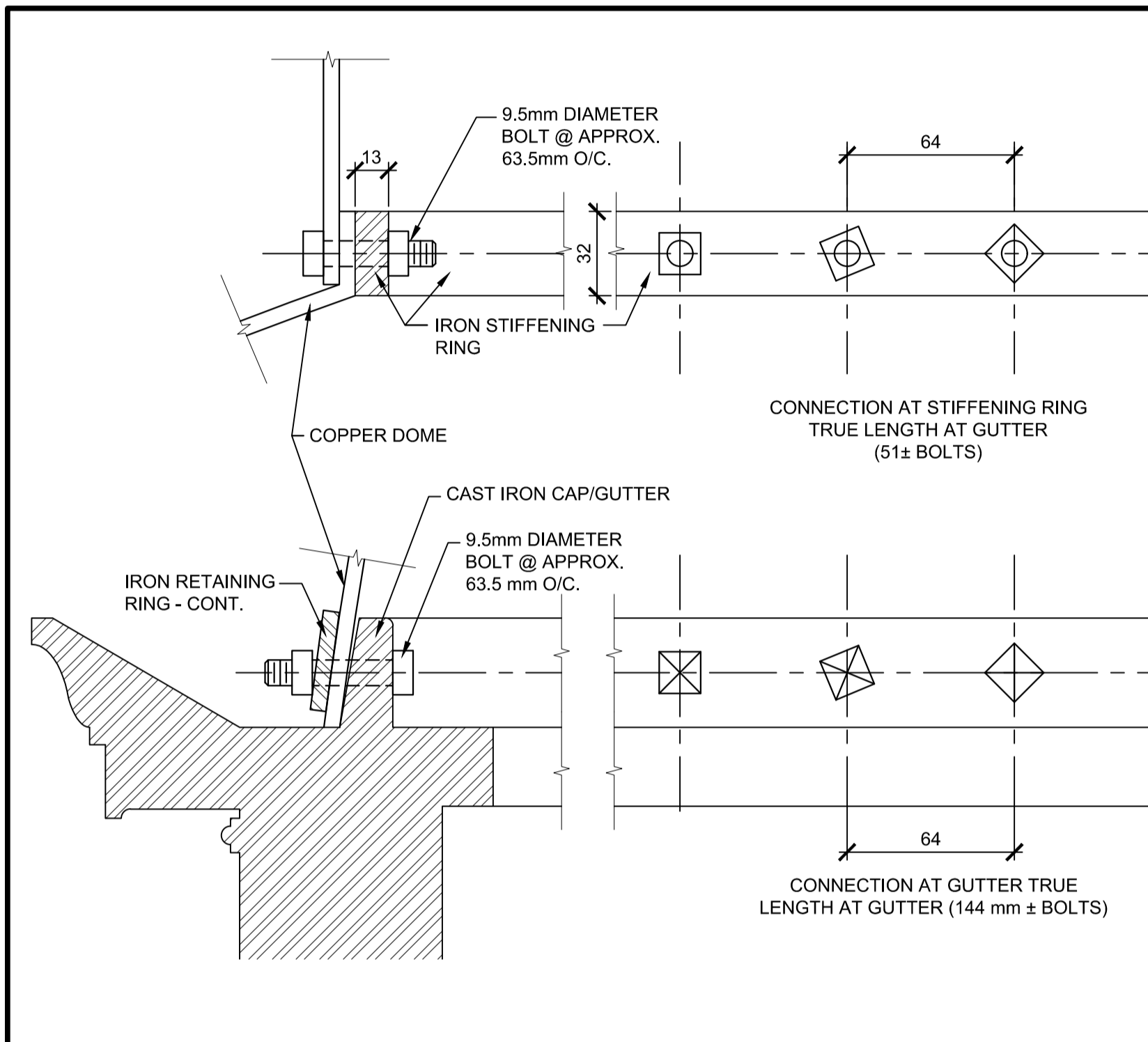


THERE ARE THREE MAIN SECTIONS TO THE MULLION CASTING: THE EXTERIOR CAP, THE RIGHT HAND WINDOW, THE LEFT HAND WINDOW
LEFT HAND WINDOW JAMB
GLAZING
BRASS STRIPS
RIGHT HAND WINDOW JAMB
CAST CAP
NOTE: THE WINDOW FRAME IS ONE UNIT WHICH JOINS AT THE MULLIONS. THERE ARE 13 IDENTICAL UNITS, 2 WITH METAL PANELS, AND ONE WITH A REMOVABLE SASH - 16 TOTAL.

DOME WINDOW MULLION SECTION

SCALE: N.T.S.

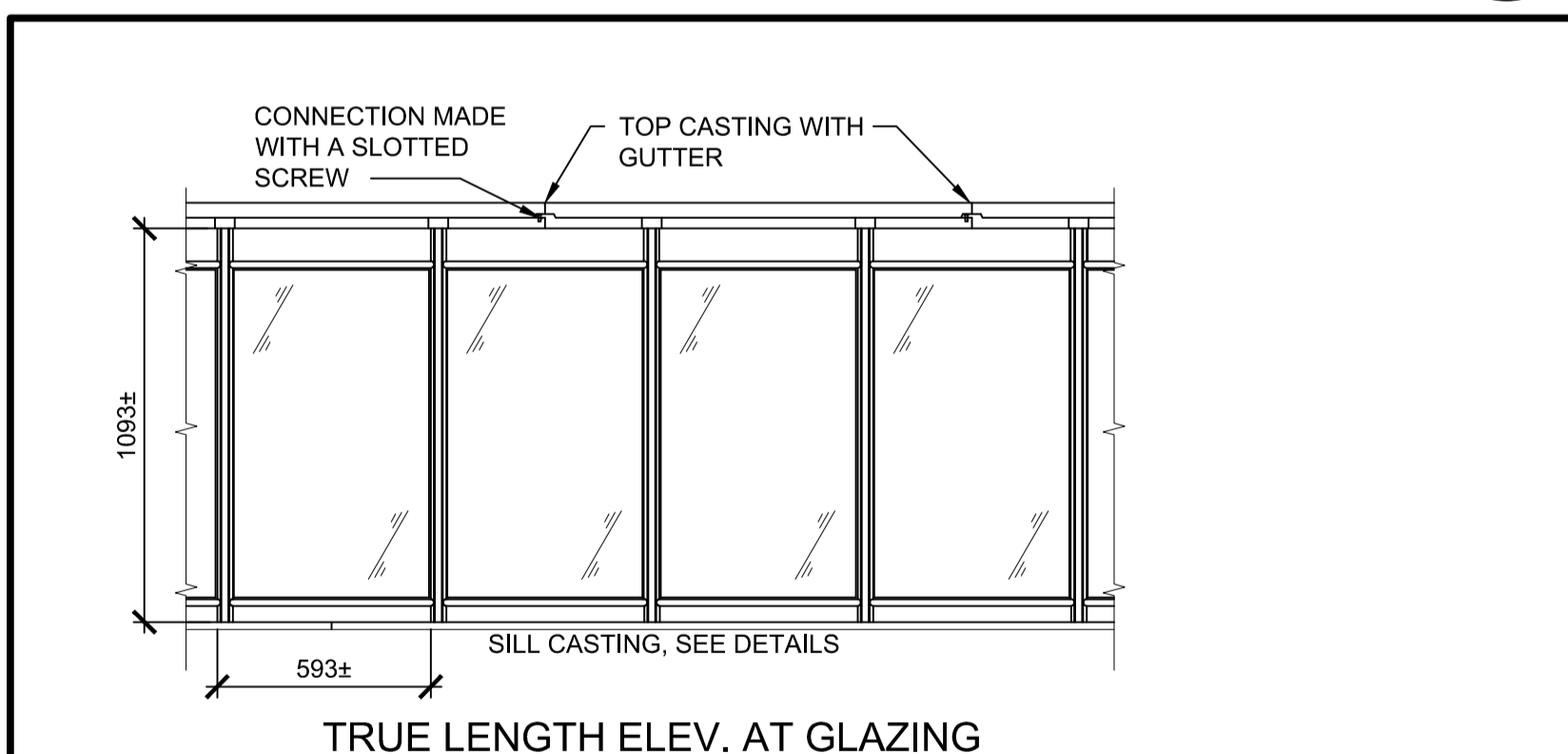
3
A6



DOME CONNECTION DETAIL - BOLT PATTERN

SCALE: N.T.S.

2
A6



CONNECTION MADE WITH A SLOTTED SCREW
TOP CASTING WITH GUTTER
SILL CASTING, SEE DETAILS
TRUE LENGTH ELEV. AT GLAZING
CHIMNEY
METAL INFILL
GROUND WIRE FROM DOME
CASTING IS BRASS/BRONZE. WINDOW IS FOUR LIGHT CAST SASH & IS REMOVABLE BY REMOVING TWO BRONZE WING NUTS.
CHIMNEY
METAL INFILL
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 16
LANTERN GLAZING - KEY PLAN DEVELOPED
GLAZING PANELS ARE ± 910mm x 540mm.

DOME GLAZING ELEVATION

SCALE: N.T.S.

1
A6

SHOP NOTES:

- SHOP WORK: LANTERN AND DOME TO BE COMPLETELY DISASSEMBLED. COMPONENTS CAREFULLY RECORDED, ALL FINISHES REMOVED, RE-PAINTED AND REASSEMBLED. RESTORE ALL COMPONENTS WHERE POSSIBLE. REPLACE MISSING COMPONENTS WHERE REQUIRED TO MATCH EXISTING.
- GUTTER AND MULLION DRAINS TO BE CLEANED OF ALL DEBRIS AND FULLY FUNCTIONING.

0	ISSUED FOR TENDER	FEB.9 2018
revisions		date

project	project
---------	---------

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION

ST. JOHN'S, NL

drawing	dessin
---------	--------

DOME GLAZING UNIT SHOP DEMO/RESTORATION DETAILS

designed G. SNOW conçu

date DEC. 2016

drawn C. BAIRD dessiné

date DEC. 2016

approved approuvé

date

Tender Soumission

PWSC Project Manager Administrateur de projets TPSGC

project number no. du projet

PCAN582

drawing no. no. du dessin

A6



DOOR 1

SCALE: N.T.S.

E
A7



WINDOW TYPE 3

SCALE: N.T.S.

C
A7



FALSE WINDOW TYPE 2

SCALE: N.T.S.

E
A7



WINDOW TYPE 2

SCALE: N.T.S.

B
A7



FALSE WINDOW TYPE 1

SCALE: N.T.S.

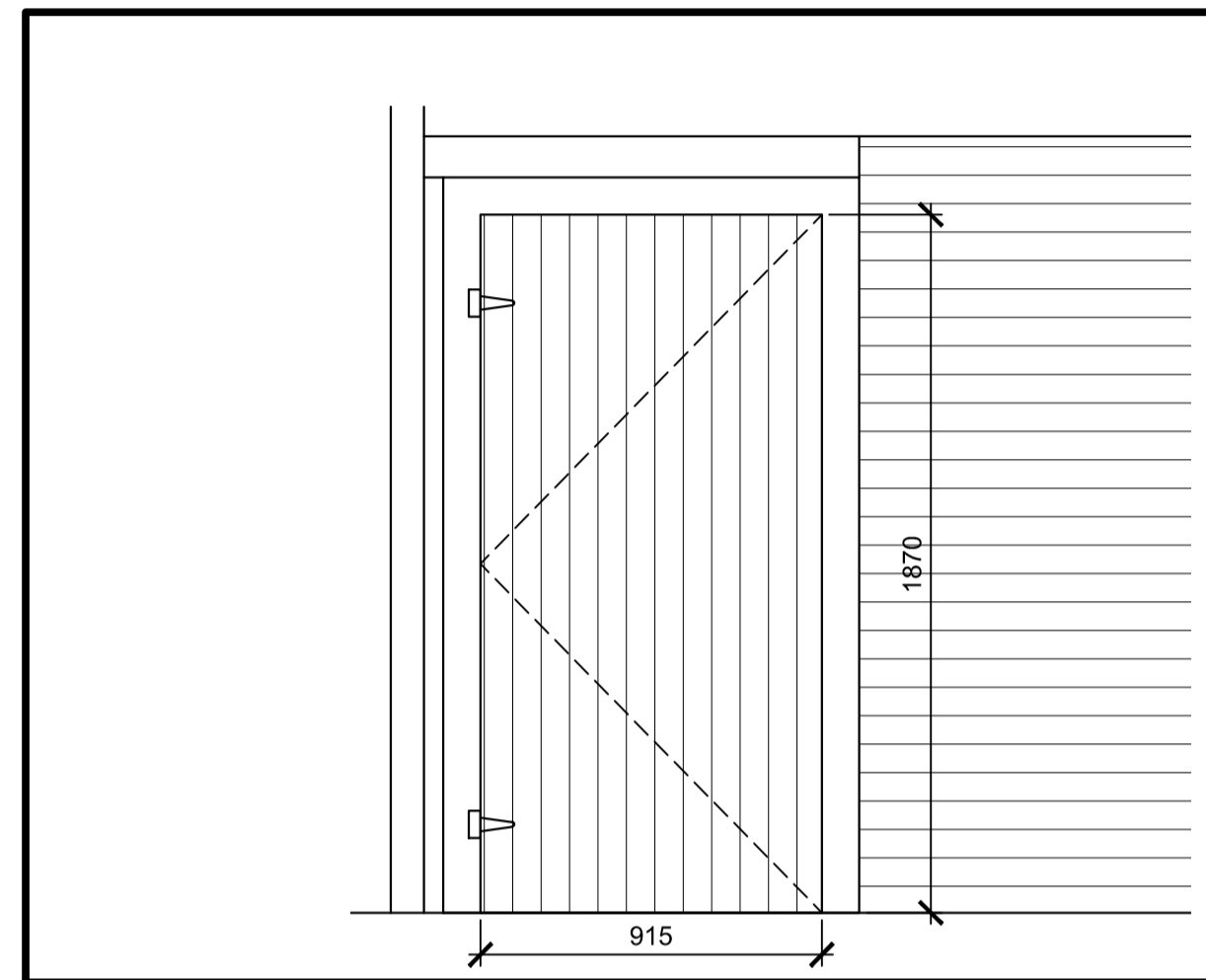
D
A7



WINDOW TYPE 1

SCALE: N.T.S.

A
A7

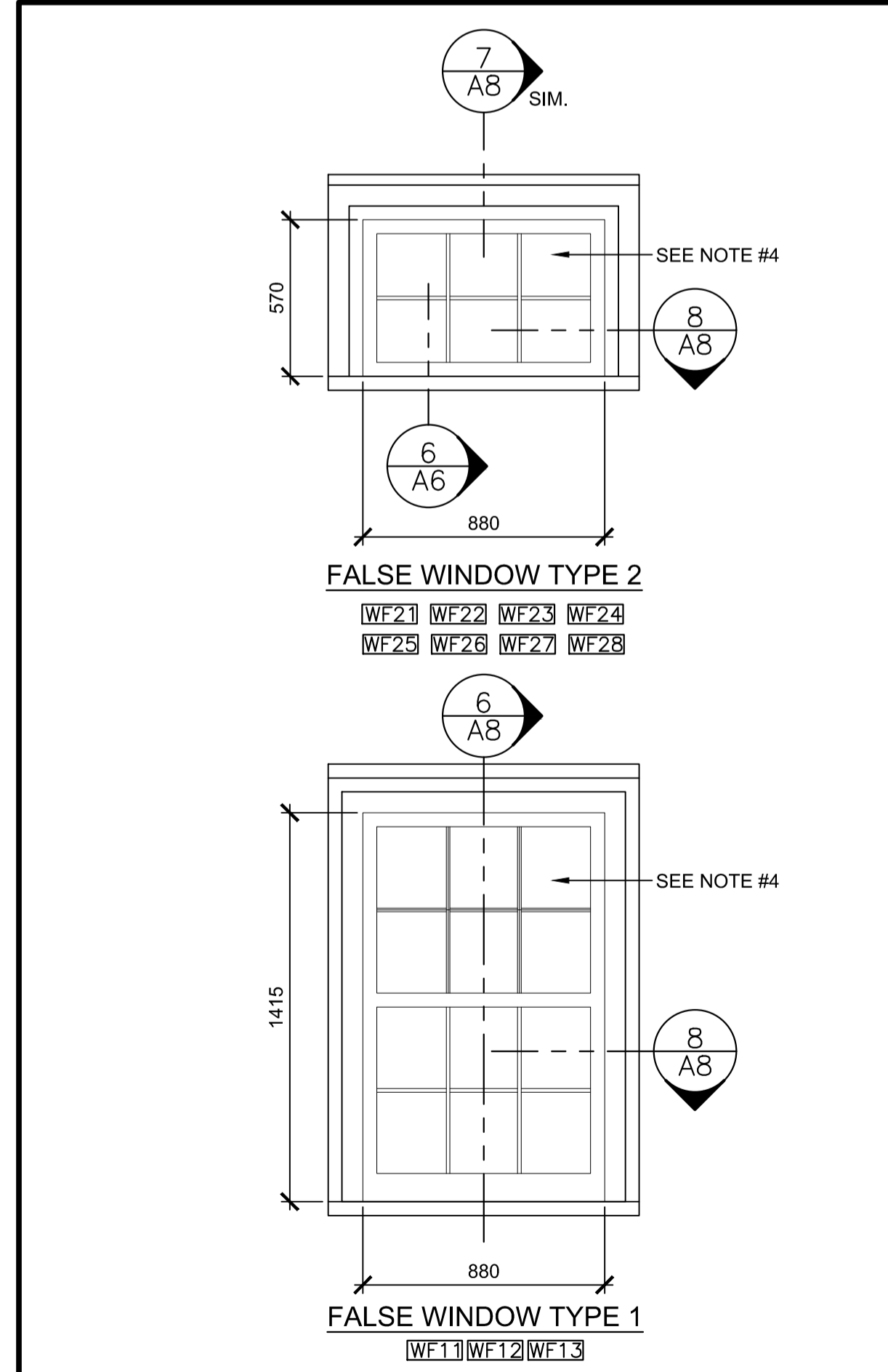


DOOR ELEVATION

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

3
A7



FALSE WINDOW ELEVATIONS

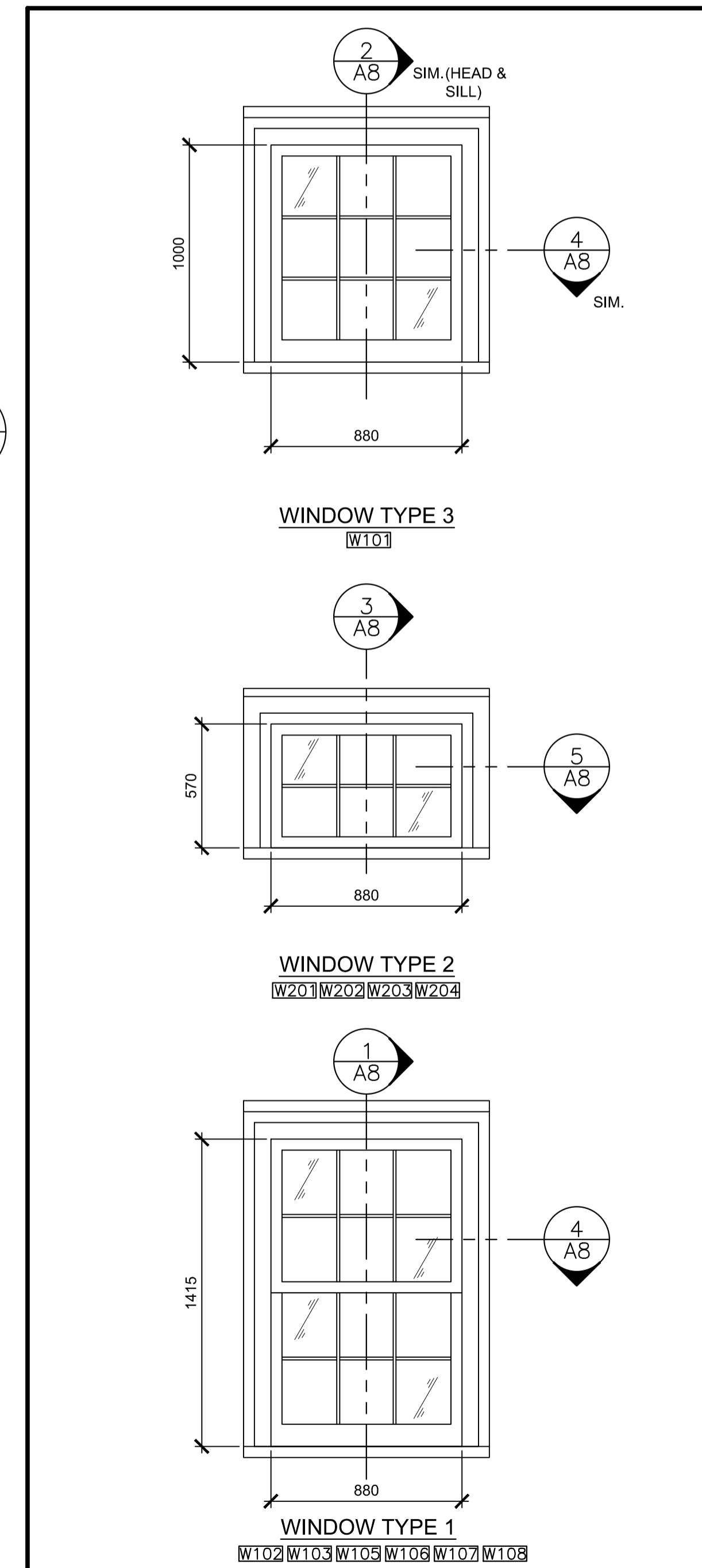
SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

2
A7

GENERAL NOTES:

1. ALL WINDOWS AND COMPONENTS TO BE CAREFULLY REMOVED, RESTORED AND REINSTALLED. DETERIORATED WOOD IN WINDOWS TO BE REPLACED TO MATCH EXISTING - SEE UNIT PRICE IN SPEC. REPAIR ALL ADJACENT SURFACES TO LIKE NEW CONDITION.
2. ALL FALSE WINDOW COMPONENTS TO BE CAREFULLY REMOVED. NEW FALSE WINDOWS COMPONENTS TO BE FABRICATED TO MATCH EXISTING ADJACENT WINDOW COMPONENTS - SEE UNIT PRICE IN SPEC. REPAIR ALL ADJACENT SURFACES TO LIKE NEW CONDITION.
3. WINDOW, FALSE WINDOW AND DETAIL SIZES INDICATED ARE APPROXIMATE AND REQUIRE SITE VERIFICATION.
4. FALSE WINDOW BACKGROUND TO BE PAINTED, COLOUR TO BE DETERMINED BY OWNER AND ARCHITECT. FOUR PAINTED MOCK-UPS ARE TO BE SUBMITTED TO OWNER AND ARCHITECT FOR REVIEW AND APPROVAL.



WINDOW ELEVATIONS

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

1
A7



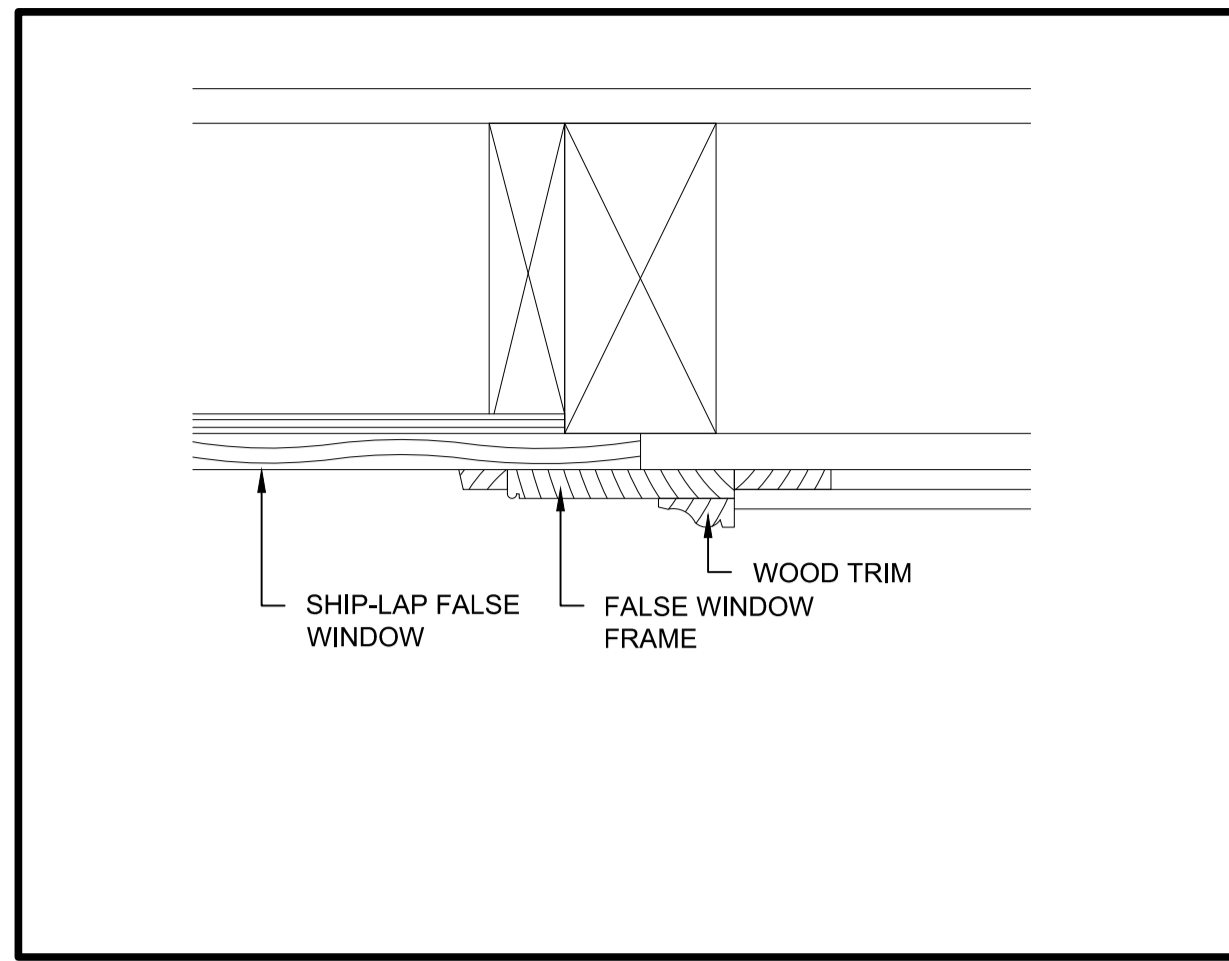
0	ISSUED FOR TENDER	FEB.9 2018
revisions		date

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

WINDOW AND DOOR ELEVATIONS

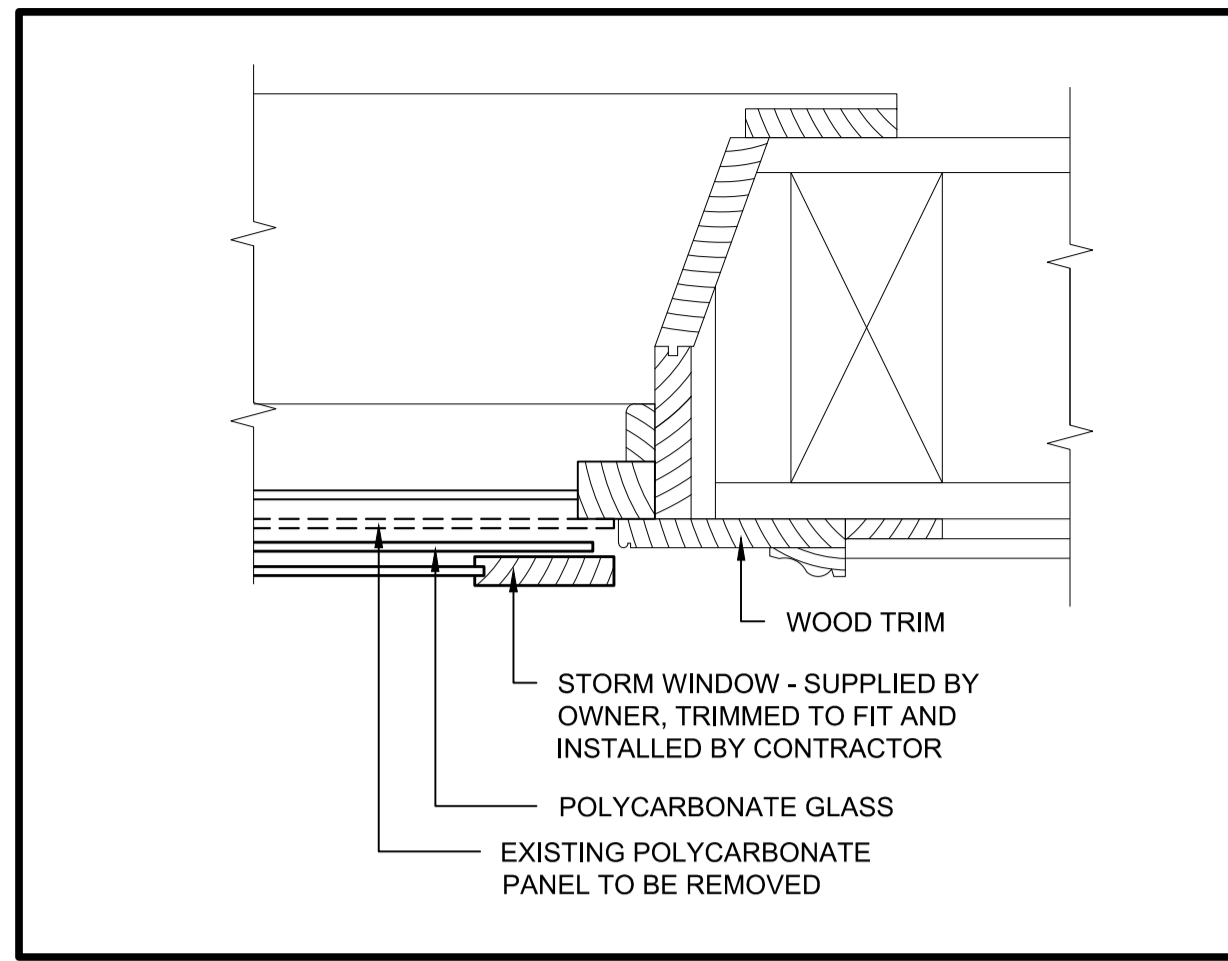
designed	G. SNOW	conçu
date	DEC. 2016	
drawn	C. BAIRD	dessiné
date	DEC. 2016	
approved		approuvé
date		
Tender		Soumission
PWGC Project Manager	Administrateur de projets TPSGC	
project number		no. du projet

PCAN582
drawing no. A7 no. du dessin



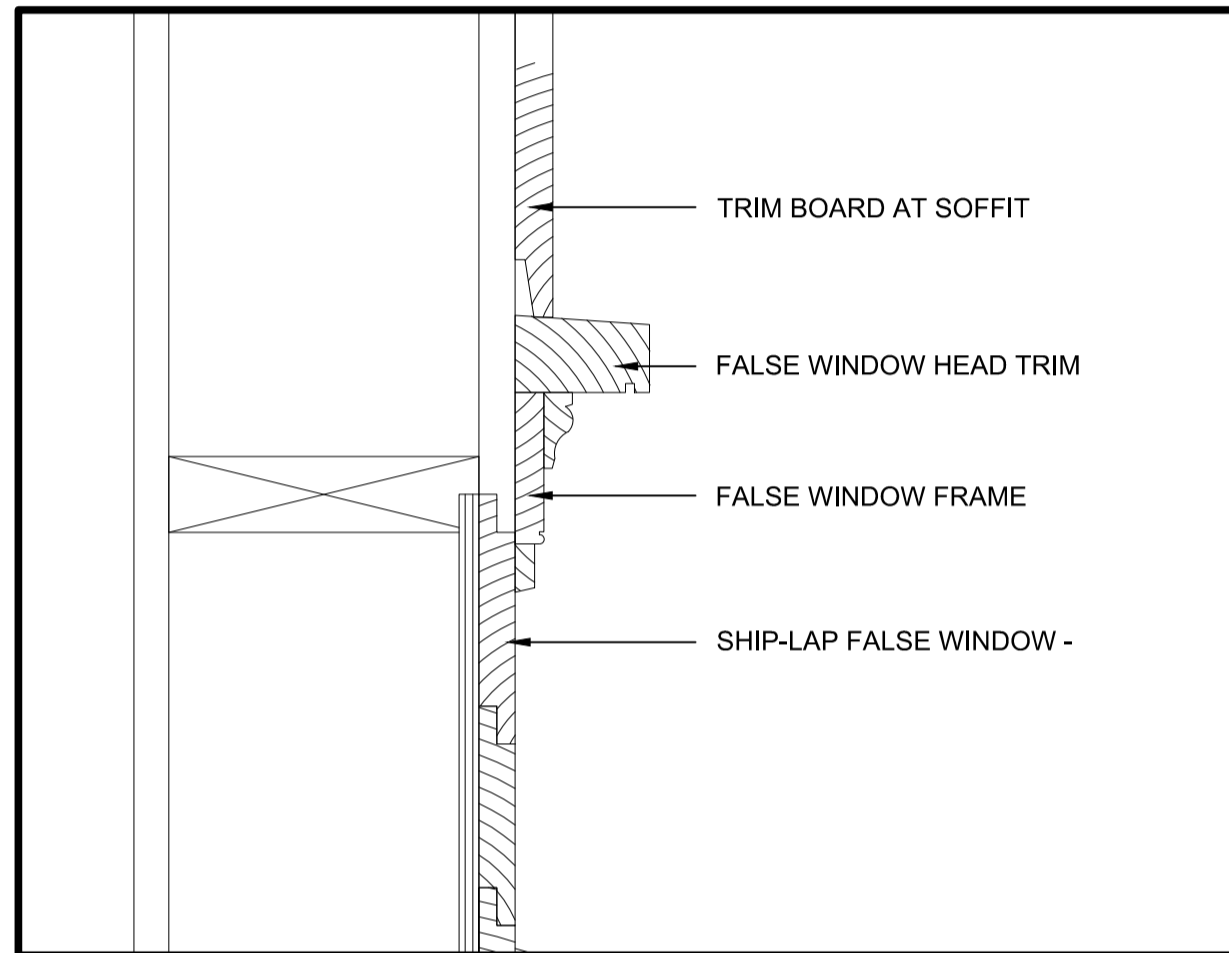
FALSE WINDOW JAMB DETAIL

8
A8



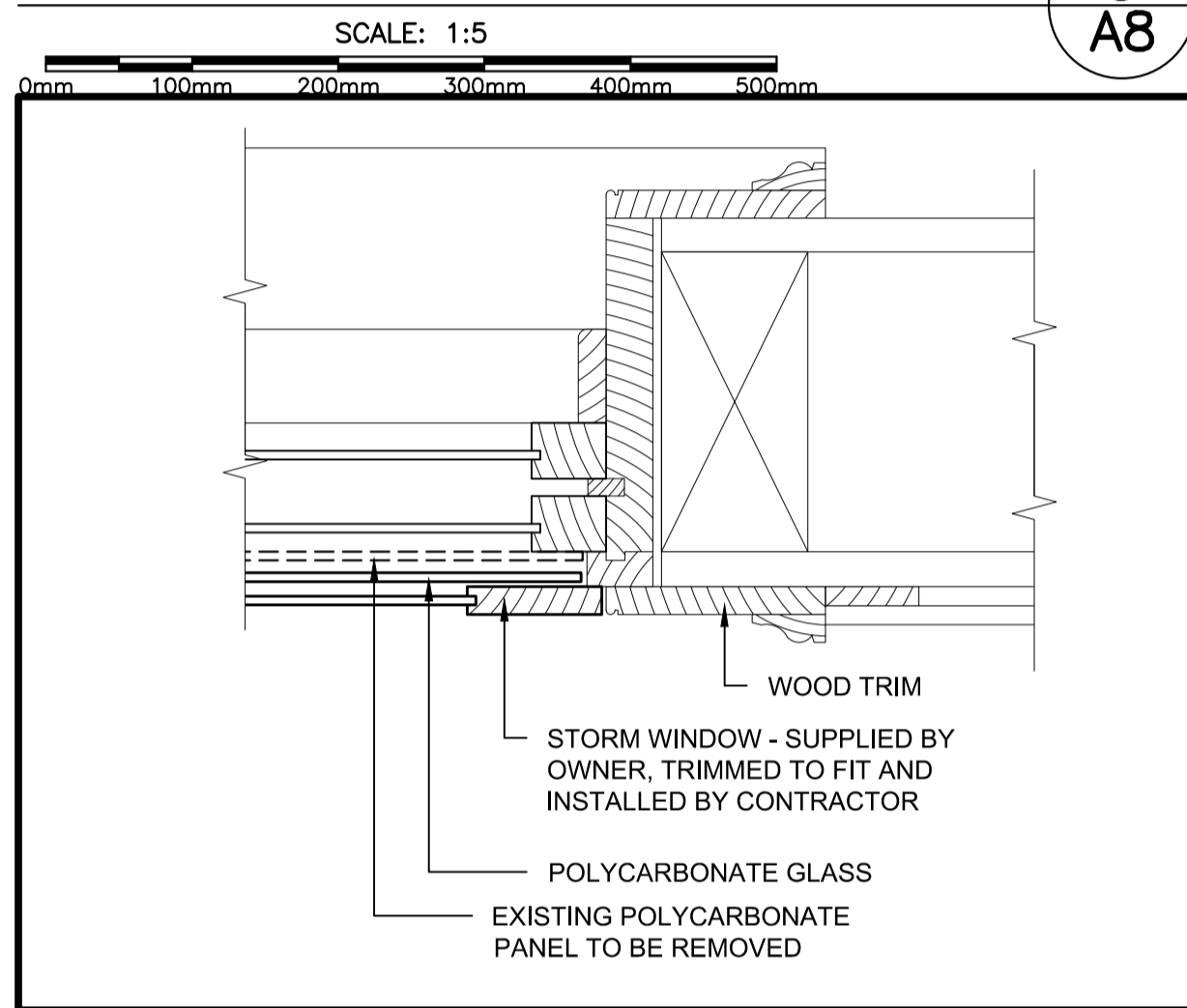
WIND. TYPE 2 JAMB DTL.

5
A8



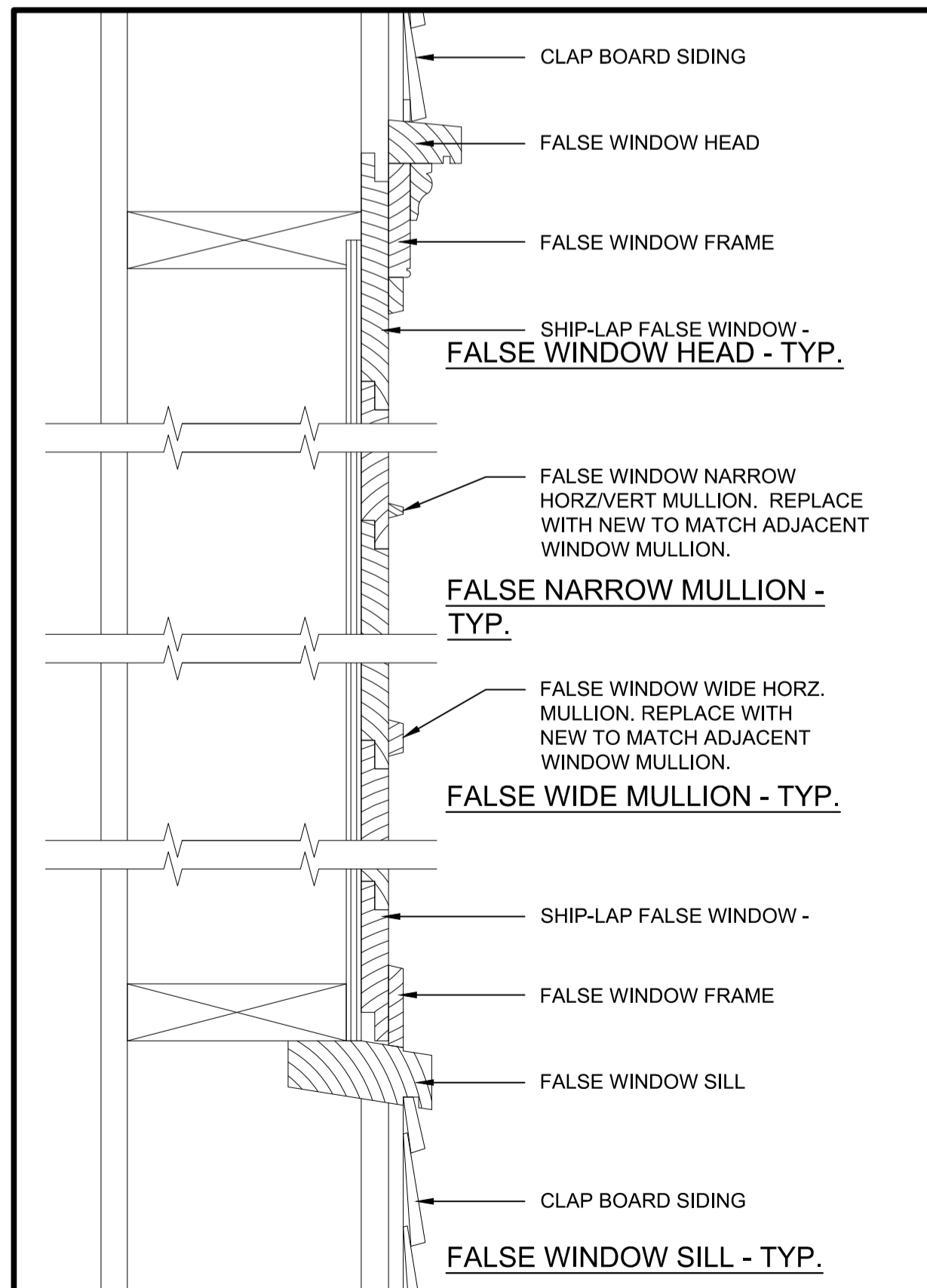
FALSE WINDOW HEAD DETAIL - 2ND FLOOR

7
A8



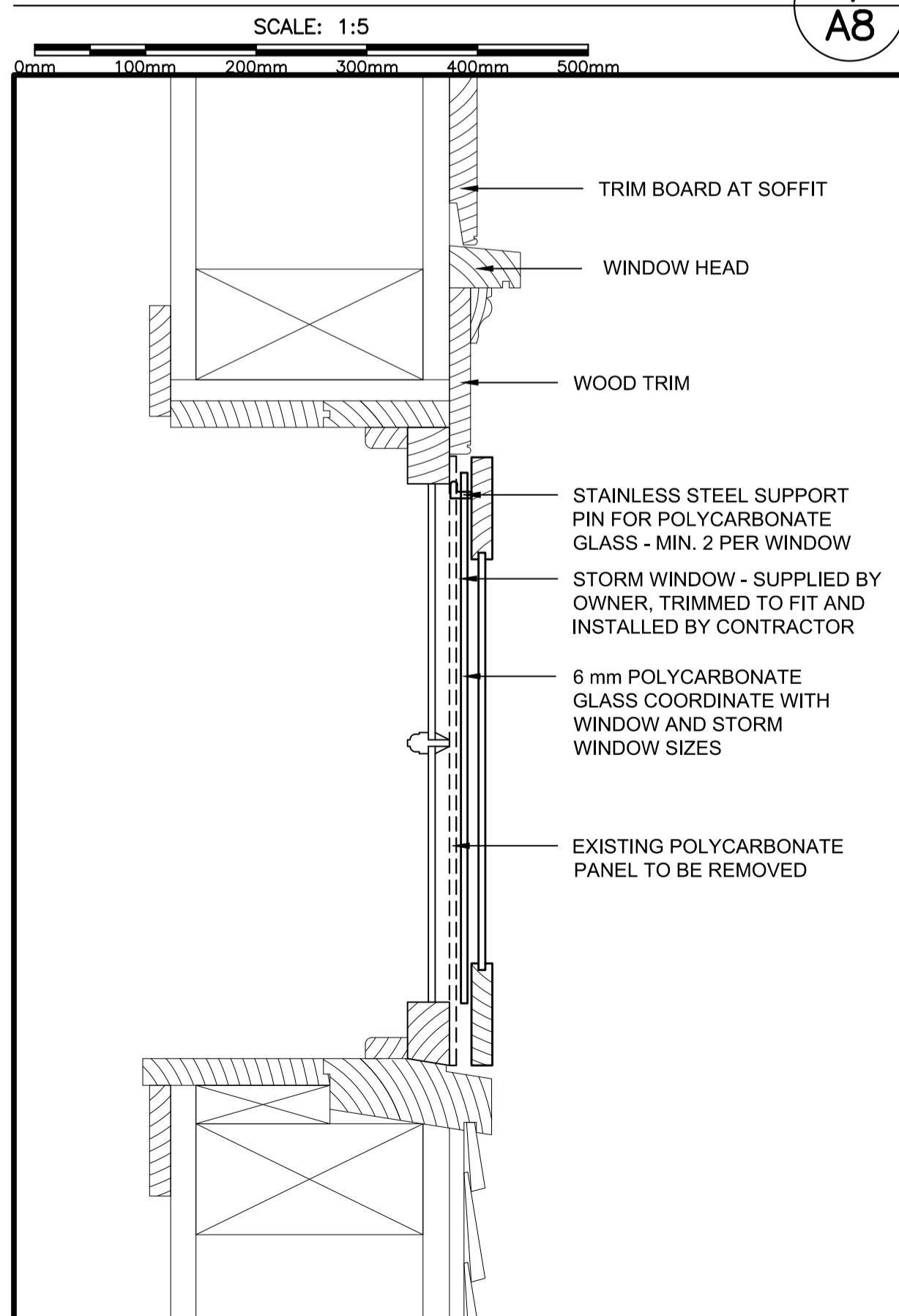
WIND. TYPE 1 JAMB DTL.

4
A8



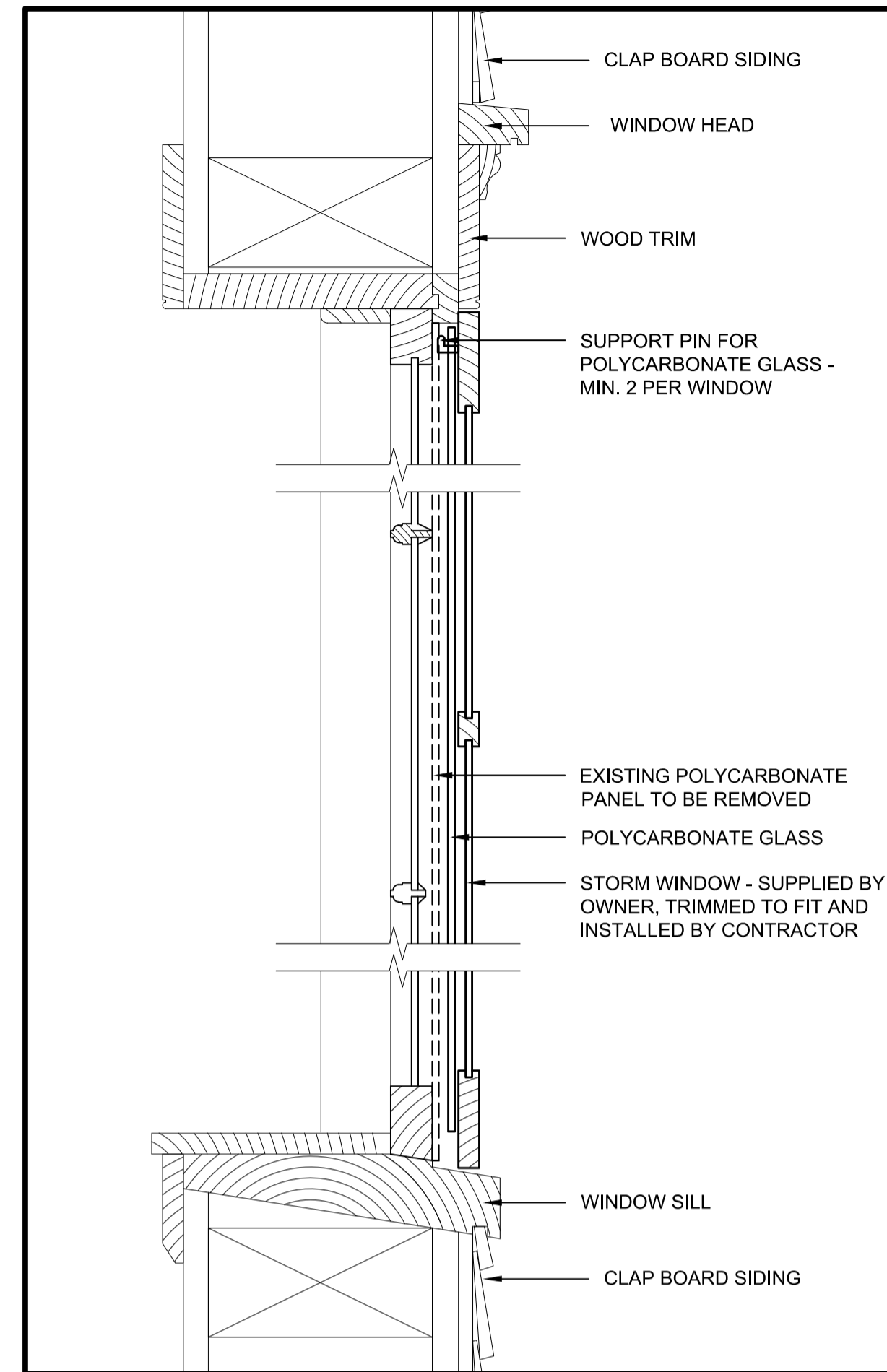
FALSE WINDOW DETAILS

6
A8



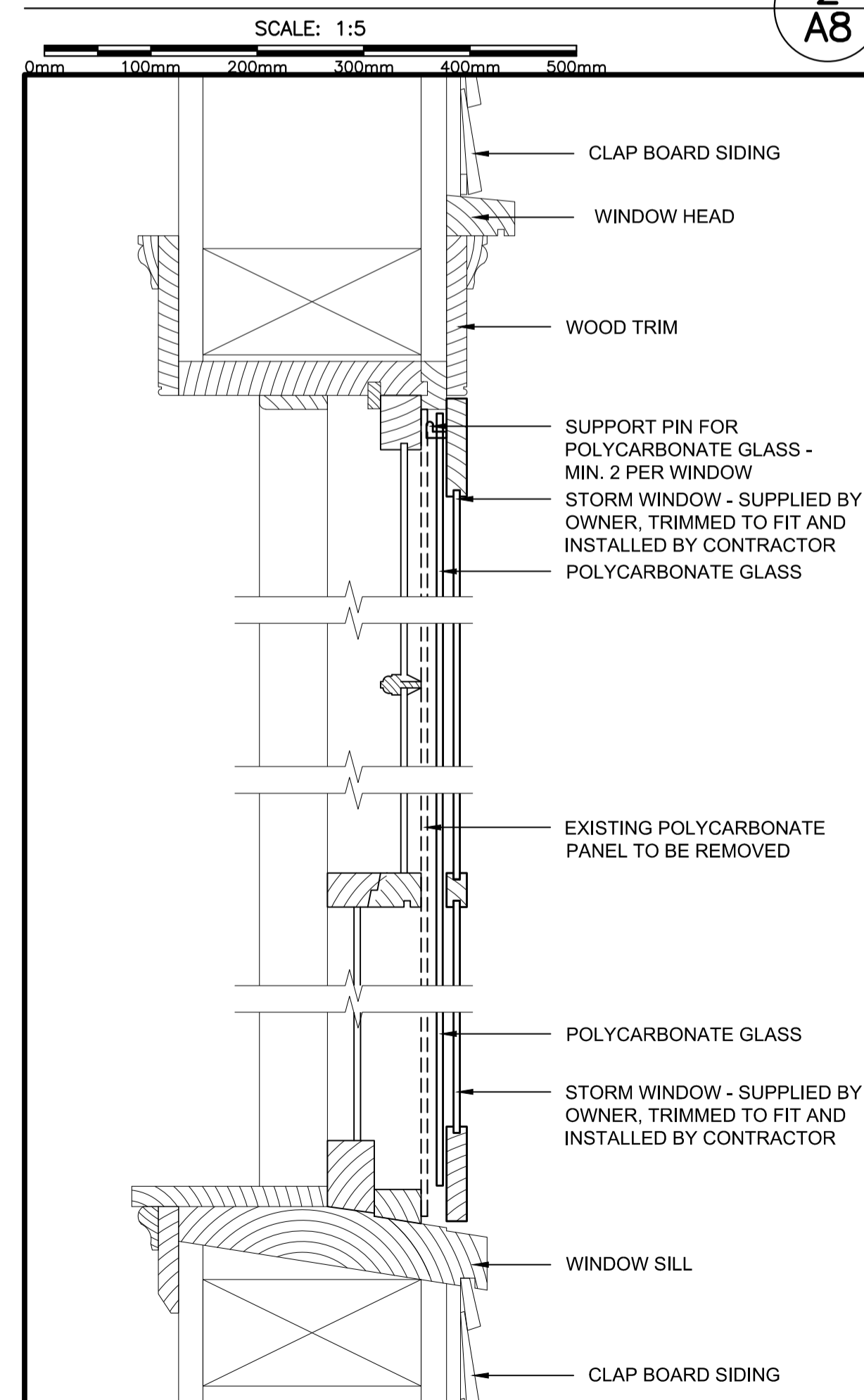
WINDOW TYPE 2 DETAILS

3
A8



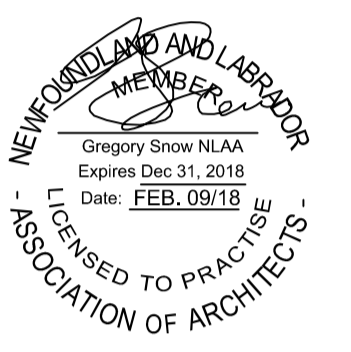
WINDOW TYPE 3 DETAILS

2
A8



WINDOW TYPE 1 DETAILS

1
A8



0	ISSUED FOR TENDER	FEB.9 2018
revisions		date
project		project

CAPE SPEAR NHS
LIGHTHOUSE DOME
RECAPITALISATION
ST. JOHN'S, NL

drawing dessin

WINDOW DETAILS

designed G. SNOW conçu

date DEC. 2016

drawn C. BAIRD dessiné

date DEC. 2016

approved approuvé

date

Tender Soumission

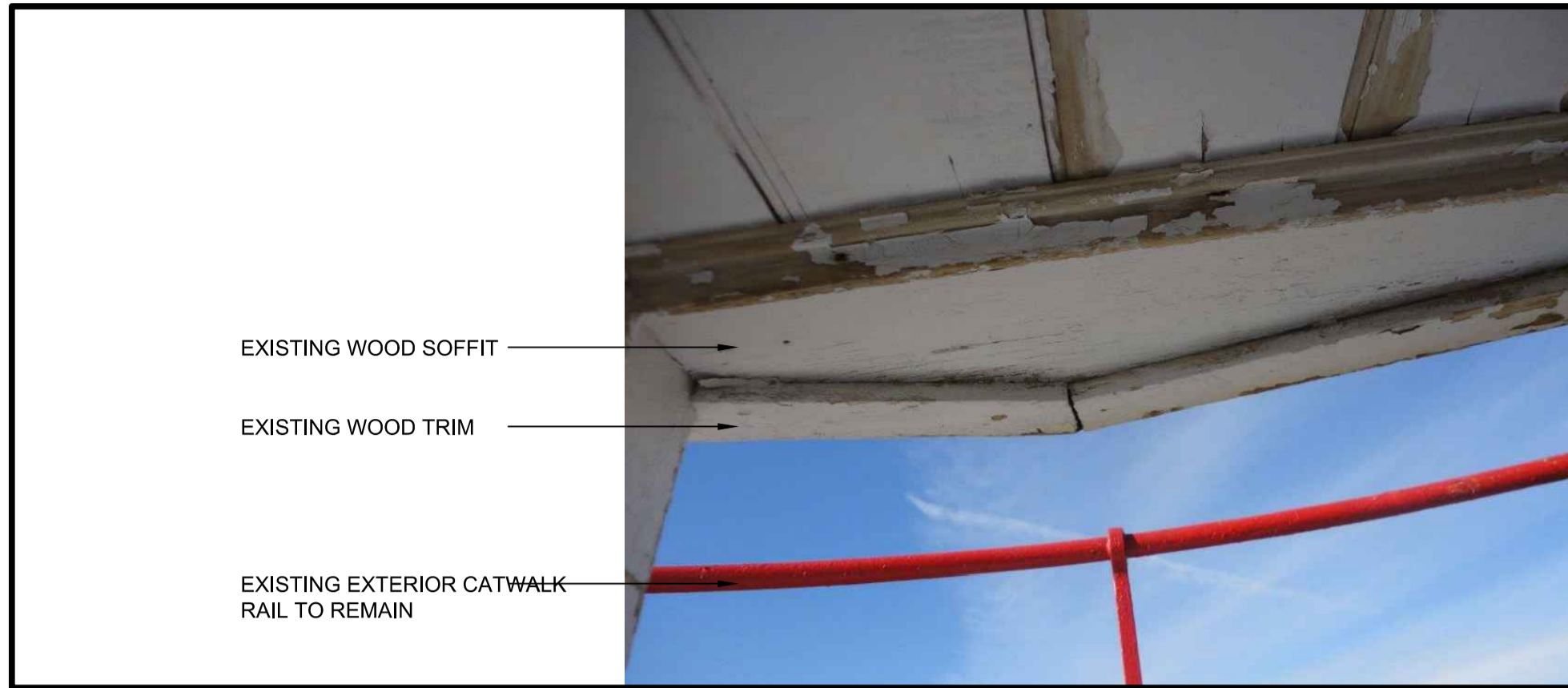
PWGC Project Manager Administrateur de projets TPSCG

project number no. du projet

PCAN582

drawing no. no. du dessin

A8

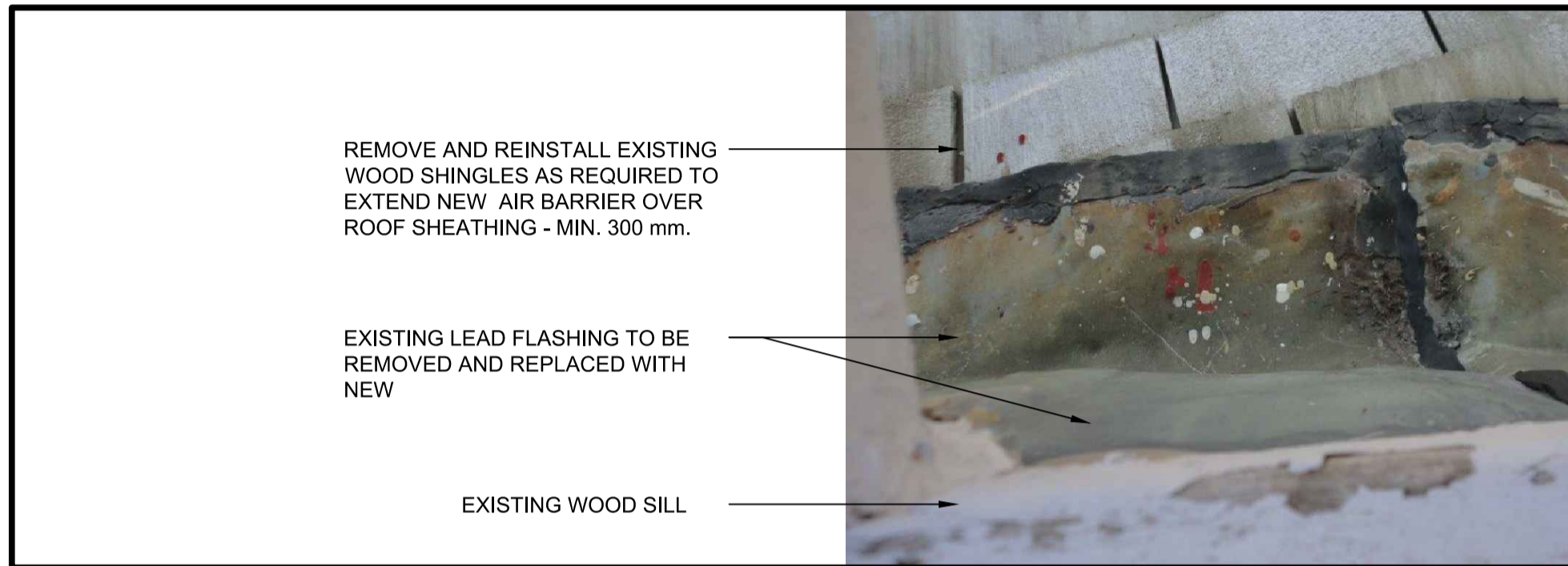


EXISTING WOOD SOFFIT
 EXISTING WOOD TRIM
 EXISTING EXTERIOR CATWALK RAIL TO REMAIN

ACCESS HATCH EXTERIOR HEAD

SCALE: N.T.S.

**E
A9**



REMOVE AND REINSTALL EXISTING WOOD SHINGLES AS REQUIRED TO EXTEND NEW AIR BARRIER OVER ROOF SHEATHING - MIN. 300 mm.
 EXISTING LEAD FLASHING TO BE REMOVED AND REPLACED WITH NEW
 EXISTING WOOD SILL

ACCESS HATCH EXTERIOR SILL

SCALE: N.T.S.

**D
A9**

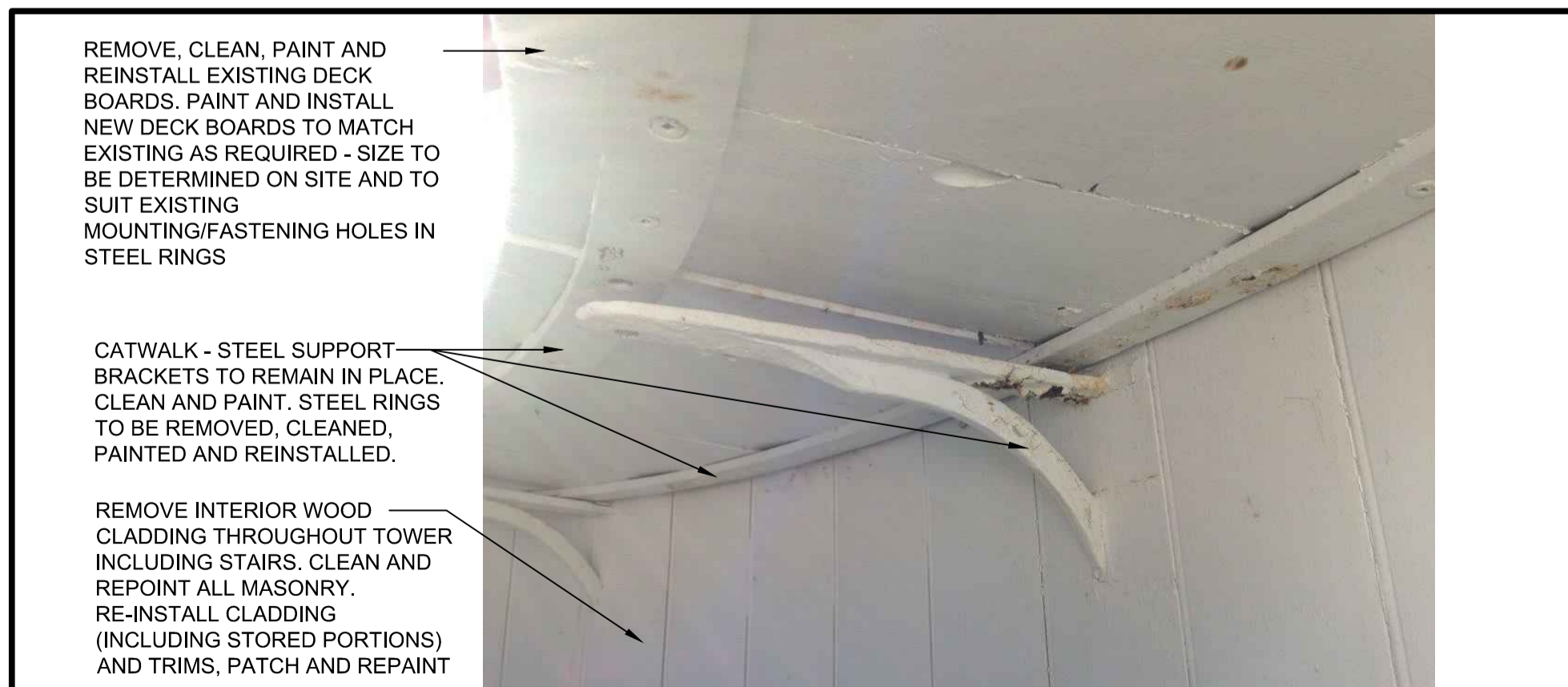


EXISTING TOWER MASONRY STRUCTURE. CLEAN AND REPOINT
 CATWALK - STEEL SUPPORT BRACKETS TO REMAIN IN PLACE. CLEAN AND PAINT. STEEL RINGS TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED.
 EXISTING INTERIOR WOOD CLADDING THROUGHOUT TOWER
 CLEAN AND PAINT ACCESS HATCH. REPLACE DETERIORATED WOOD WITH NEW TO MATCH EXISTING. INSTALL WEATHER STRIPPING ALL AROUND.
 EXISTING WOOD CLADDING IN ACCESS HATCH OPENING TO REMAIN IN PLACE. CLEAN AND PAINT.

ACCESS HATCH OPENING

SCALE: N.T.S.

**C
A9**

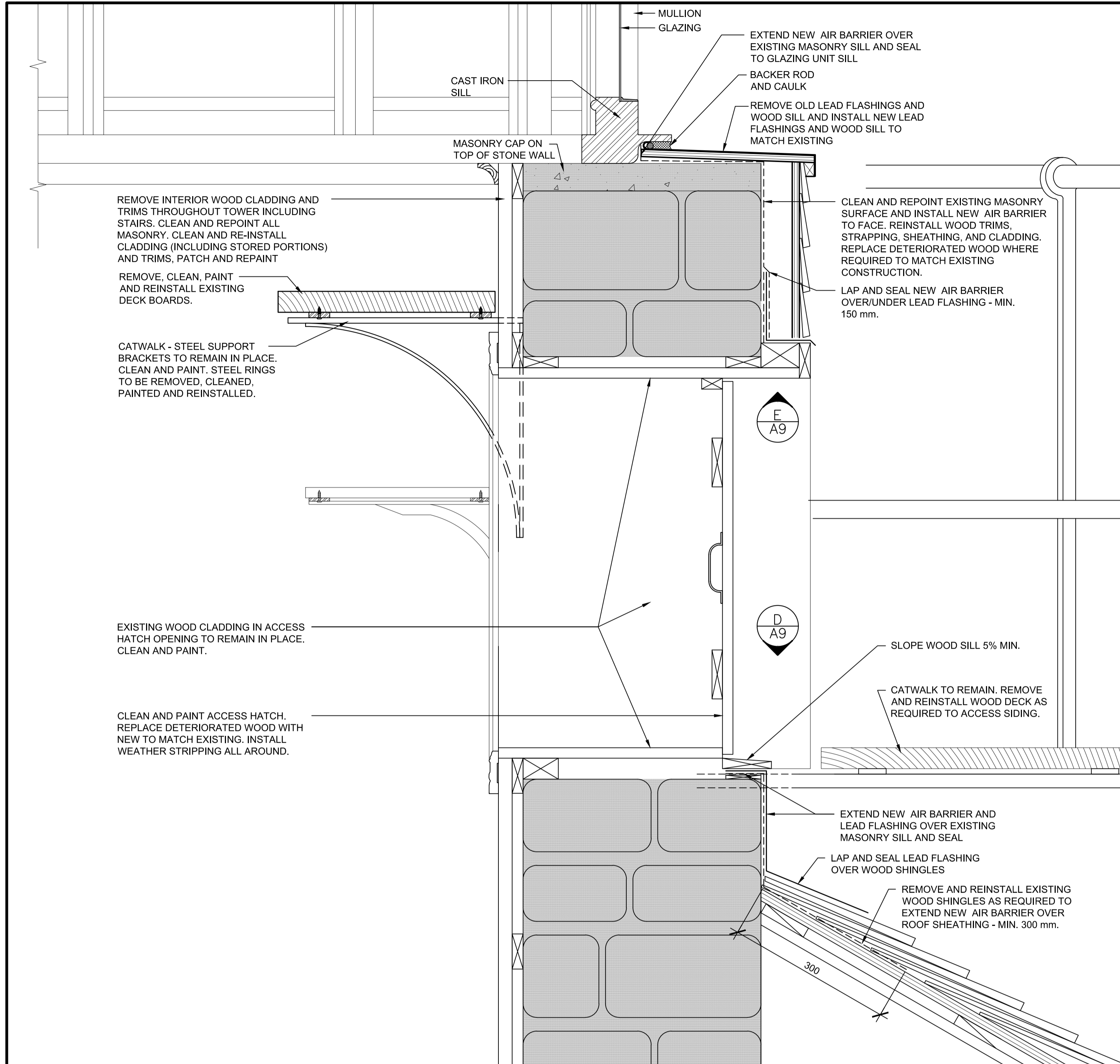


REMOVE, CLEAN, PAINT AND REINSTALL EXISTING DECK BOARDS. PAINT AND INSTALL NEW DECK BOARDS TO MATCH EXISTING AS REQUIRED - SIZE TO BE DETERMINED ON SITE AND TO SUIT EXISTING MOUNTING/FASTENING HOLES IN STEEL RINGS
 CATWALK - STEEL SUPPORT BRACKETS TO REMAIN IN PLACE. CLEAN AND PAINT. STEEL RINGS TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED.
 REMOVE INTERIOR WOOD CLADDING THROUGHOUT TOWER INCLUDING STAIRS. CLEAN AND REPOINT ALL MASONRY. RE-INSTALL CLADDING (INCLUDING STORED PORTIONS) AND TRIMS. PATCH AND REPAIR

TOWER INTERIOR CATWALK

SCALE: N.T.S.

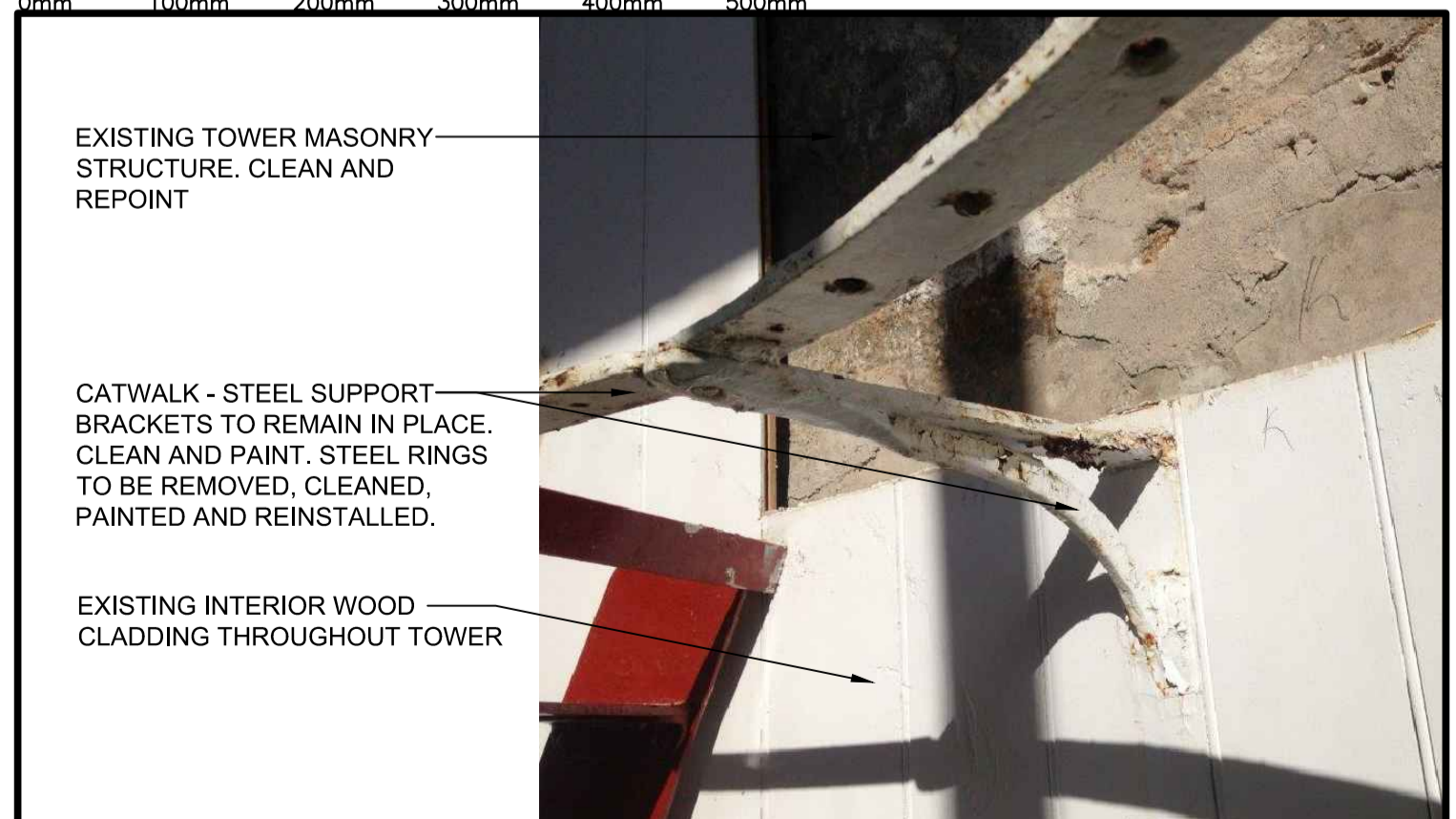
**B
A9**



DOMe SECTION

SCALE: 1:5

**2
A9**

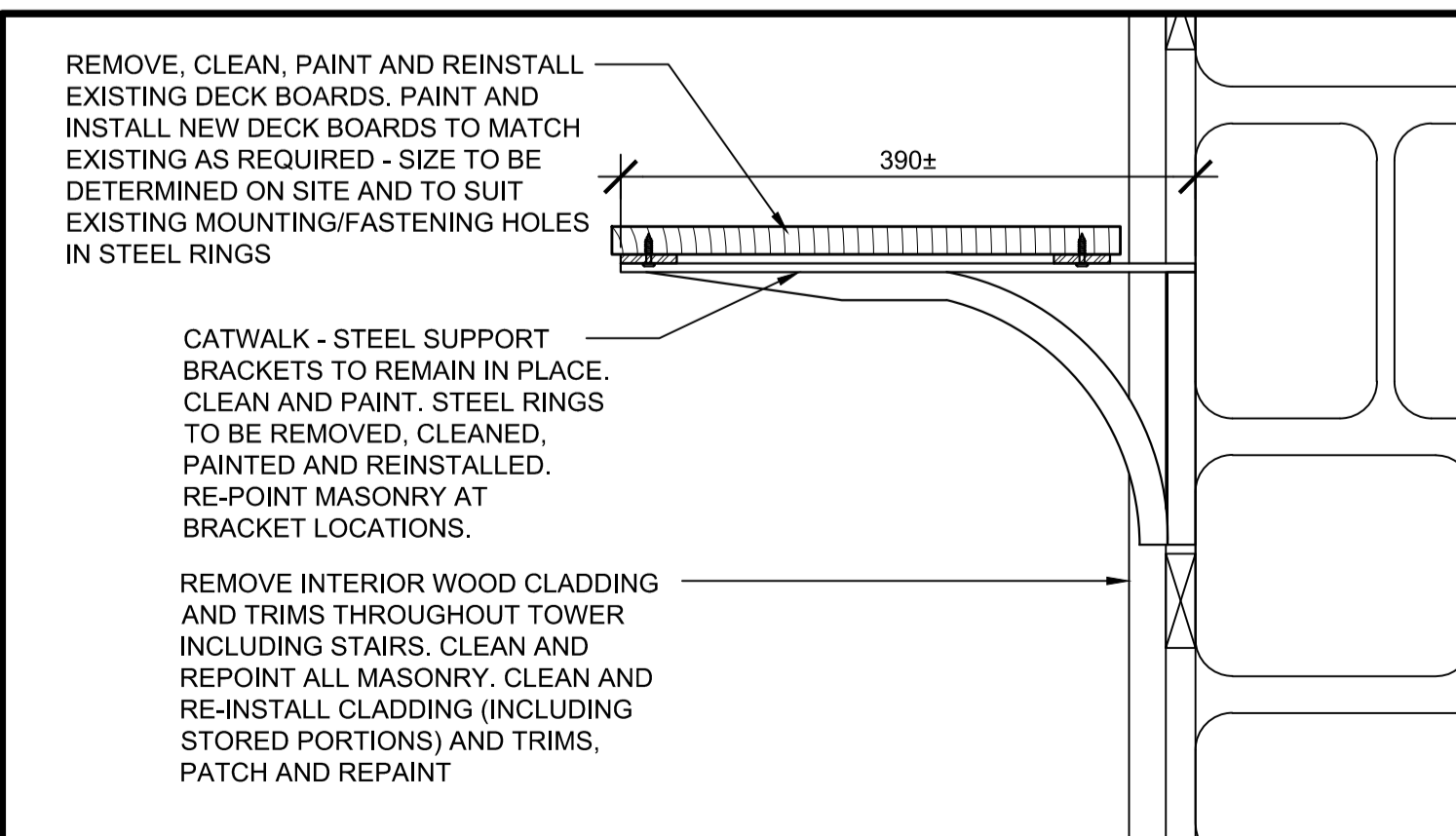


EXISTING TOWER MASONRY STRUCTURE. CLEAN AND REPOINT
 CATWALK - STEEL SUPPORT BRACKETS TO REMAIN IN PLACE. CLEAN AND PAINT. STEEL RINGS TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED.
 EXISTING INTERIOR WOOD CLADDING THROUGHOUT TOWER

TOWER INTERIOR CATWALK SUPPORT

SCALE: N.T.S.

**A
A9**



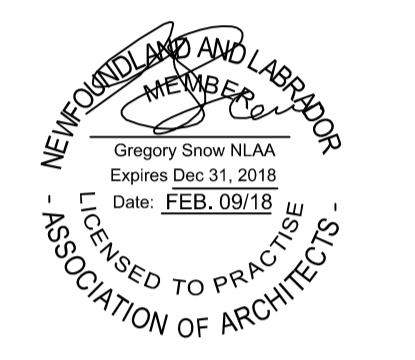
REMOVE, CLEAN, PAINT AND REINSTALL EXISTING DECK BOARDS. PAINT AND INSTALL NEW DECK BOARDS TO MATCH EXISTING AS REQUIRED - SIZE TO BE DETERMINED ON SITE AND TO SUIT EXISTING MOUNTING/FASTENING HOLES IN STEEL RINGS
 CATWALK - STEEL SUPPORT BRACKETS TO REMAIN IN PLACE. CLEAN AND PAINT. STEEL RINGS TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED. RE-POINT MASONRY AT BRACKET LOCATIONS.
 REMOVE INTERIOR WOOD CLADDING AND TRIMS THROUGHOUT TOWER INCLUDING STAIRS. CLEAN AND REPOINT ALL MASONRY. CLEAN AND RE-INSTALL CLADDING (INCLUDING STORED PORTIONS) AND TRIMS. PATCH AND REPAIR

INTERIOR CATWALK

SCALE: 1:5

**1
A9**

GSA #: 16-6100-01



0	ISSUED FOR TENDER	FEB.9 2018
revisions		date
project		project

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

drawing no. dessin no.

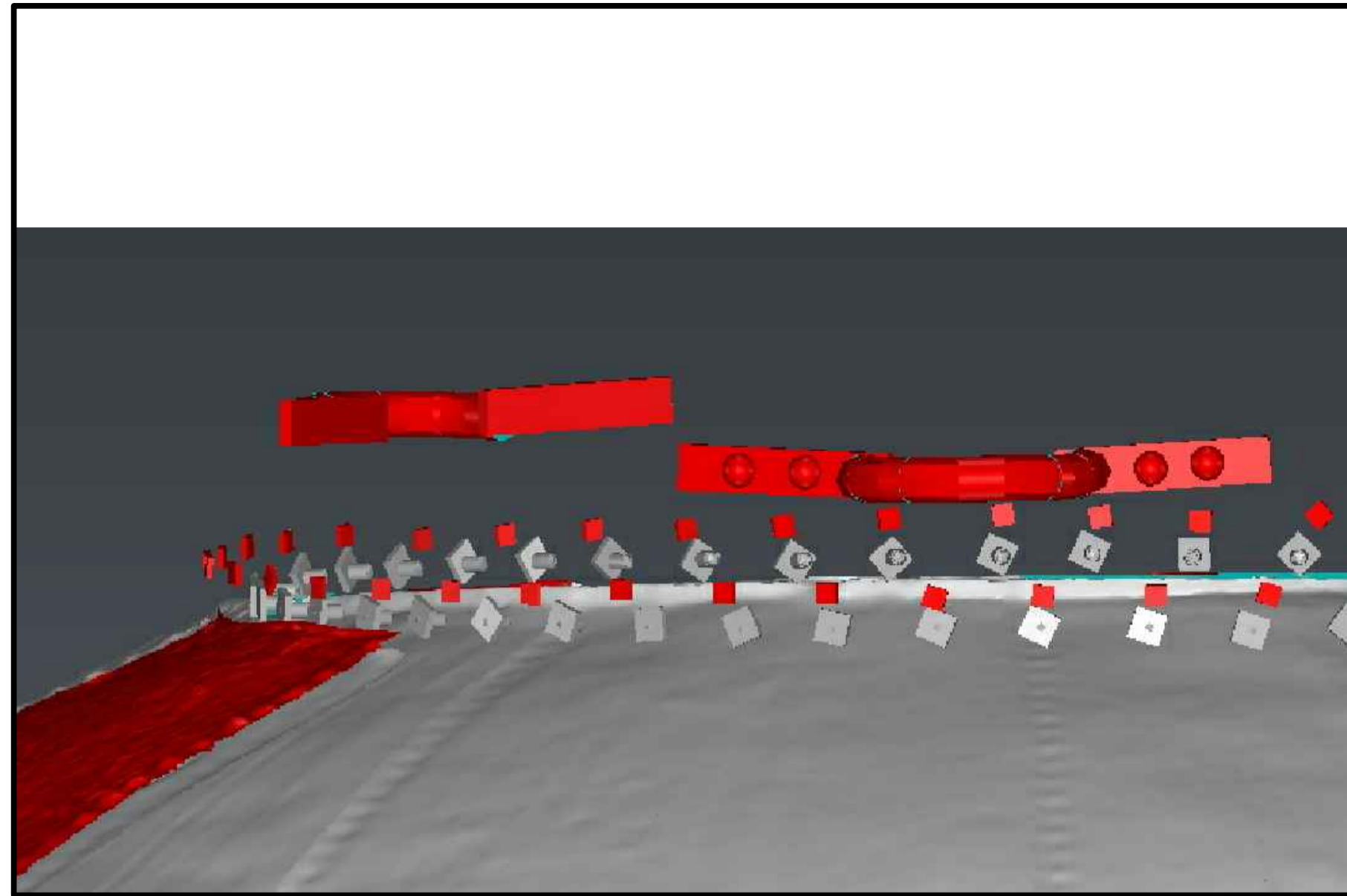
DETAILS

designed	G. SNOW	conçu
date	DEC. 2016	
drawn	C. BAIRD	dessiné
date	DEC. 2016	
approved		approuvé
date		
Tender		Soumission
PWSC Project Manager	Administrateur de projets TPSCG	
project number		no. du projet

PCAN582

drawing no. no. du dessin

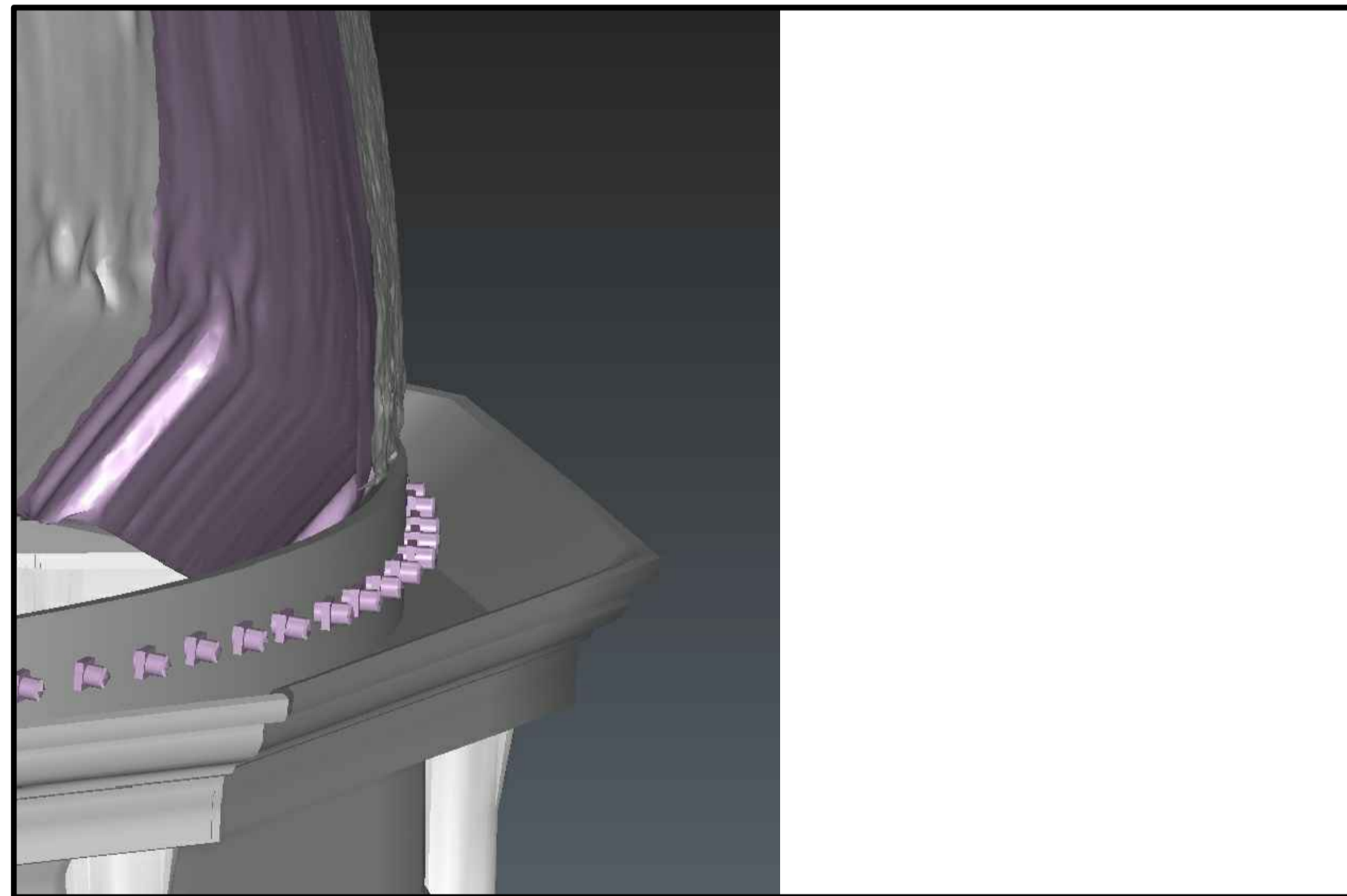
A9



DOME TOP STIFFENER BOLT ALIGNMENT

SCALE: N.T.S.

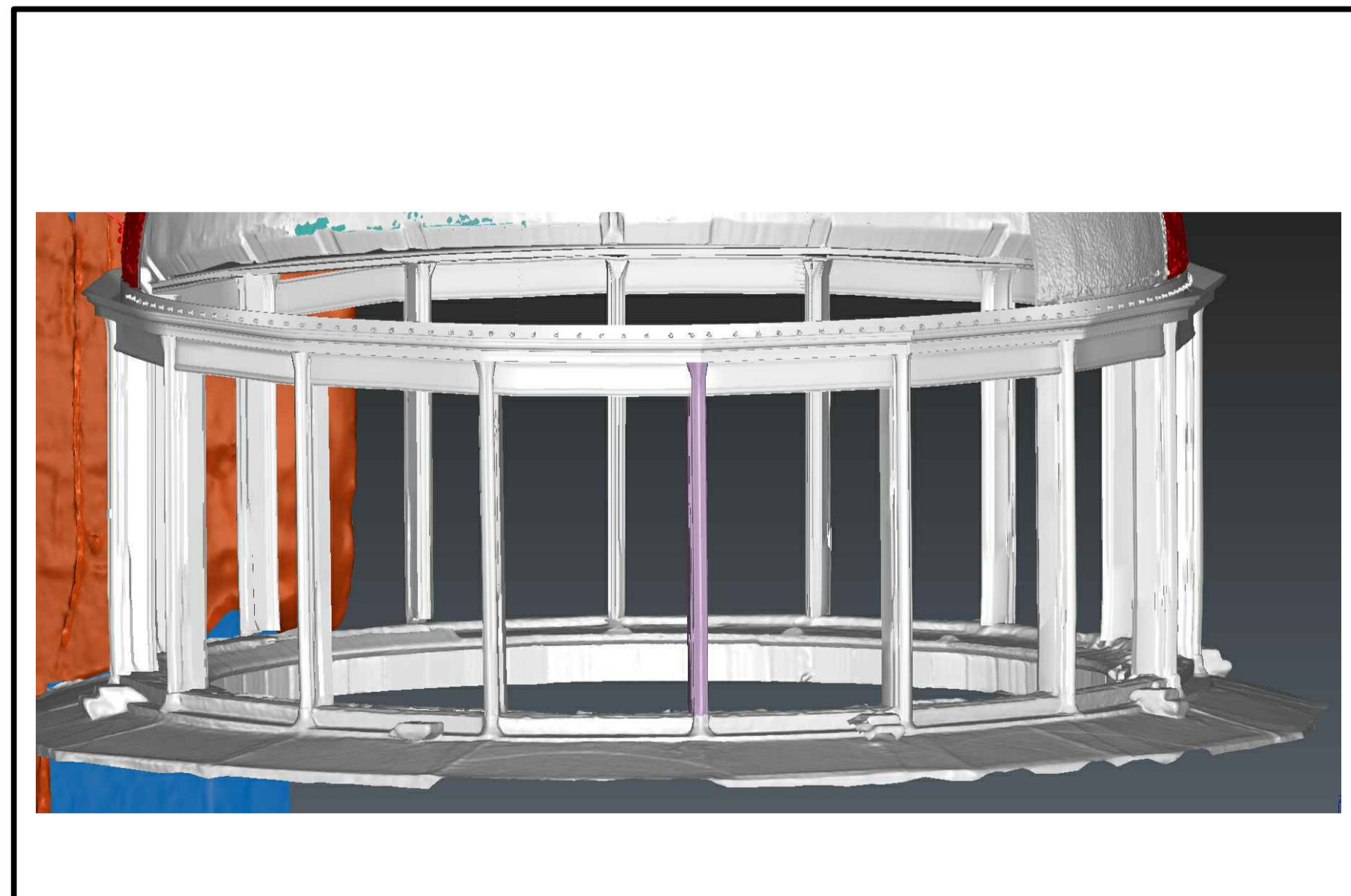
5
A10



DOME BOTTOM STIFFENER

SCALE: N.T.S.

4
A10



LANTERN MULLION

SCALE: N.T.S.

3
A10



LANTERN AND DOME SECTION

SCALE: N.T.S.

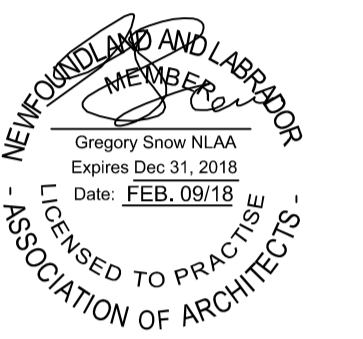
2
A10



DOME ELEVATION

SCALE: N.T.S.

1
A10



0	ISSUED FOR TENDER	FEB.9 2018
revisions		date

project projet

CAPE SPEAR NHS
LIGHTHOUSE DOME
RECAPITALISATION

ST. JOHN'S, NL

drawing dessin

DOME REFERENCE
IMAGES

designed G. SNOW conçu

date SEPT. 2017

drawn C. BAIRD dessiné

date SEPT. 2017

approved approuvé

date

Tender Soumission

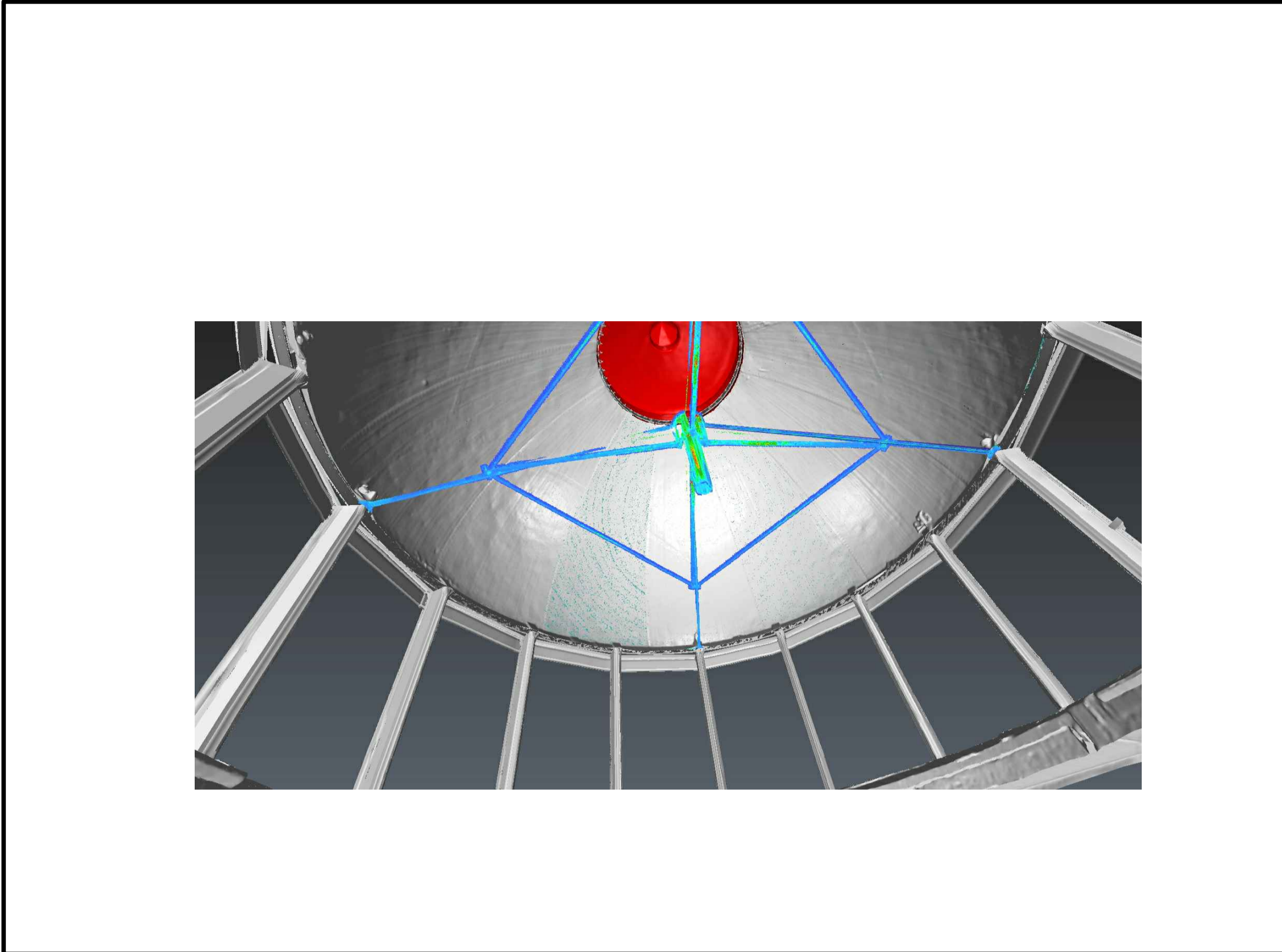
PWGC Project Manager Administrateur de projets TPSGC

project number no. du projet

PCAN582

drawing no. no. du dessin

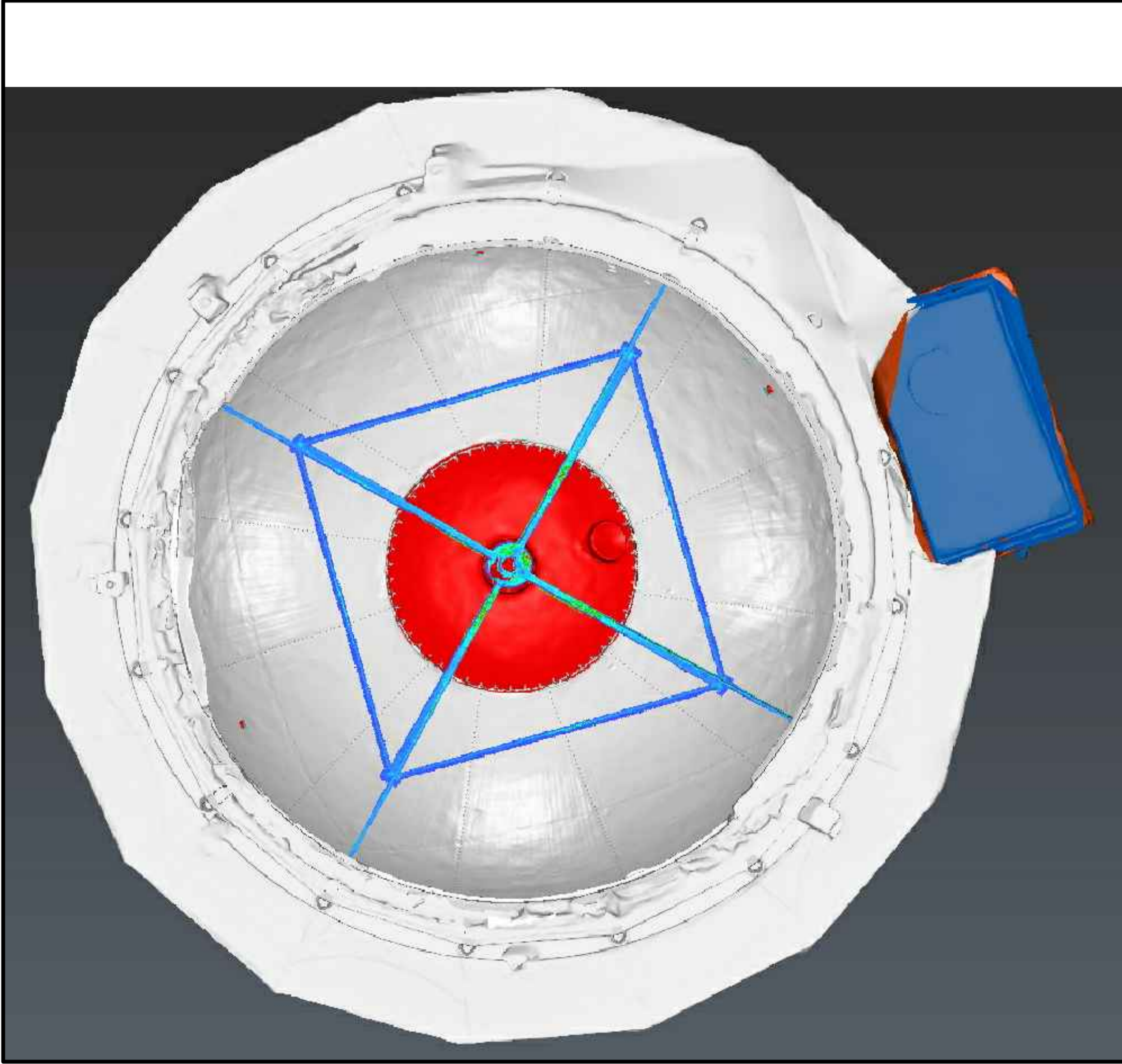
A10



LANTERN/DOME VIEW FROM BELOW

SCALE: N.T.S.

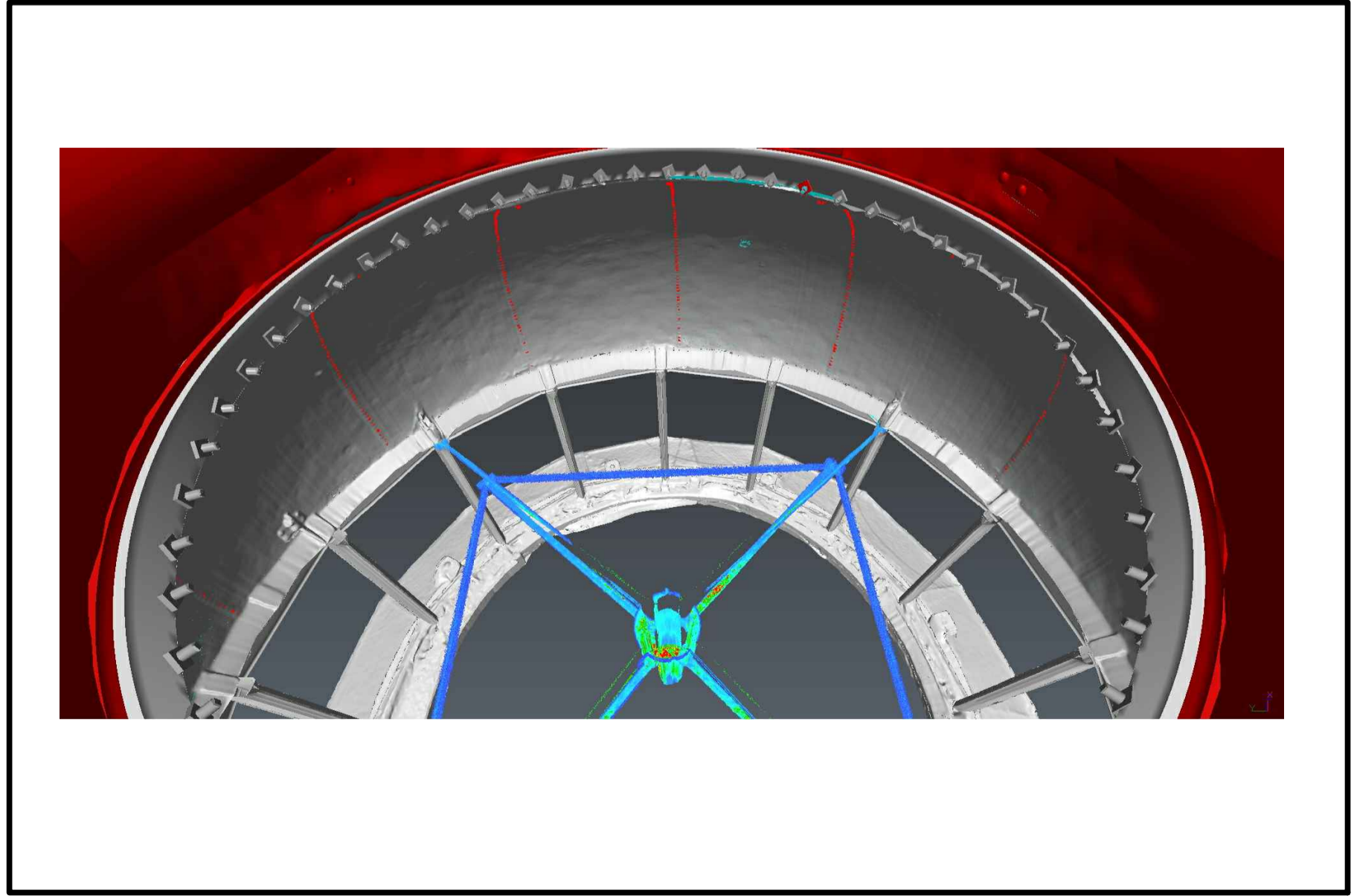
2
A11



DOME UNDERSIDE

SCALE: N.T.S.

1
A11



LANTERNDOME VIEW FROM ABOVE

SCALE: N.T.S.

3
A11

0	ISSUED FOR TENDER	FEB.9 2018
revisions		date

CAPE SPEAR NHS
LIGHTHOUSE DOME
RECAPITALISATION

ST. JOHN'S, NL

DOME REFERENCE
IMAGES

designed	G. SNOW	conçu
date	SEPT. 2017	
drawn	C. BAIRD	dessiné
date	SEPT. 2017	
approved		approuvé
date		
Tender		Soumission

PWGC Project Manager / Administrateur de projets TPSCG
project number / no. du projet

PCAN582

drawing no. / no. du dessin
A11

CAPE SPEAR NHS
LIGHTHOUSE DOME
RECAPITALIZATION
PROJECT No. PCAN5582.00

CAPE SPEAR, NL

ISSUED FOR TENDER
FEBRUARY 9, 2018

ELECTRICAL/MECHANICAL CONSULTANT:

CROSBIE
ENGINEERING LTD.

CONSULTING ENGINEERS

21 Mews Place, 2nd Floor
P.O. Box 13295, Station "A"
St. John's, NL A1B 4A5

Tel: (709) 754-1911
Fax: (709) 754-1960
admin@crosbieeng.com

DRAWING LIST:

E1 - ELECTRICAL LAYOUTS
E2 - ELECTRICAL DETAILS

ELECTRICAL

ARCHITECT:

Gibbons + Snow architects

Suite 201
Caledonia Place
40 Quidi Vidi Road
St. John's, NL
A1A 1C1

Tel: 709.738.4422
Fax: 709.738.4455

GSA #: 16-6100-01

ELECTRICAL CONSULTANT:

CROSBIE ENGINEERING LTD.
CONSULTING ENGINEERS

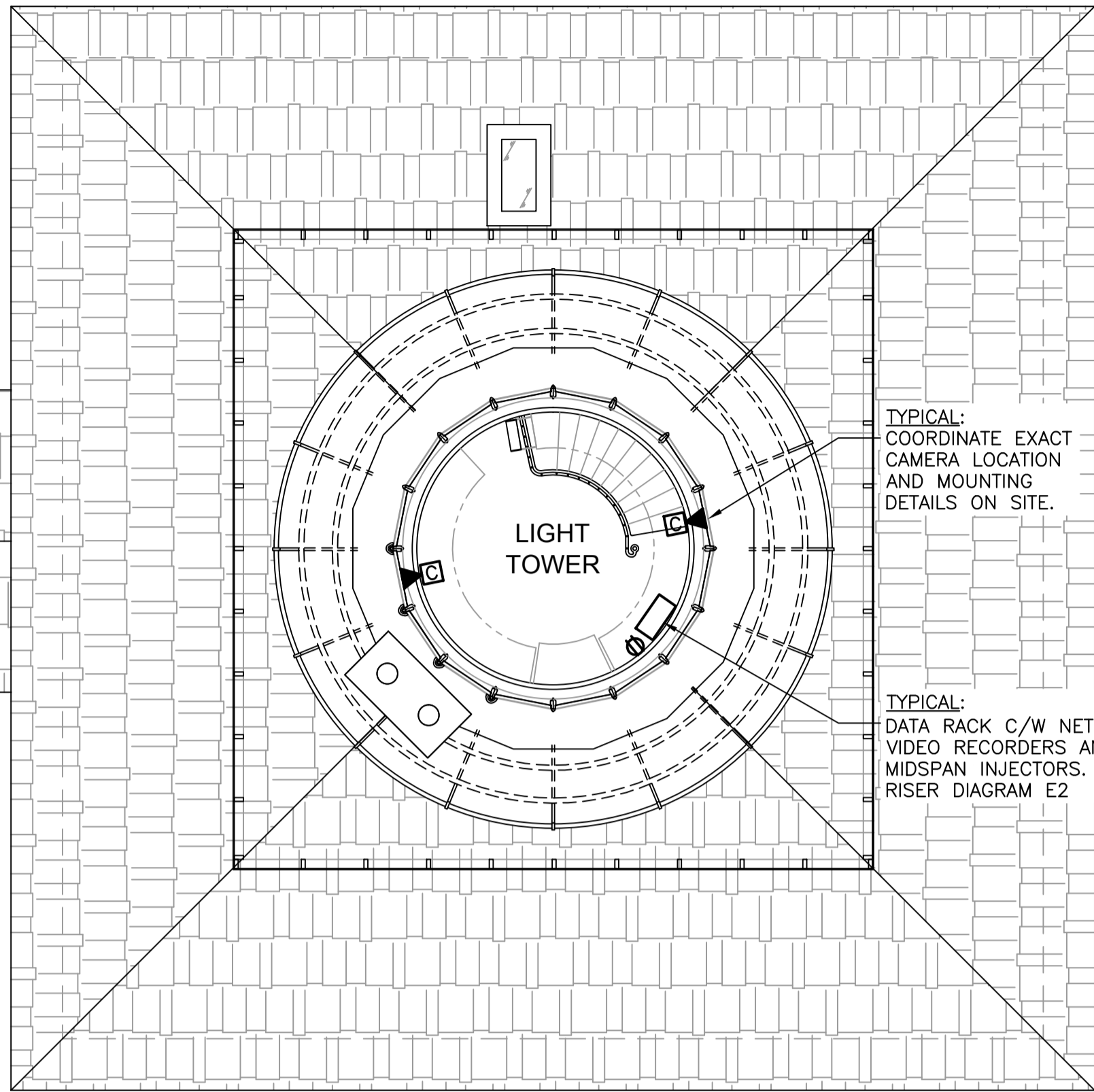
21 Meek Place, 2nd Floor, St. John's, NL, A1B 4K5
Tel: (709) 754-1911
Fax: (709) 754-1960
email: info@crosbieeng.com

STAMP:

PROFESSIONAL ENGINEER
08501 Frederick Earle
REGISTERED FEB 09/18
NEWFOUNDLAND & LABRADOR

PERMIT:
PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER Class "A"
This Permit Allows
CROSBIE ENGINEERING LIMITED
To practice Professional Engineering in Newfoundland and Labrador
Permit No. as issued by PEG-NS 05123
which is valid for the year 2018.

DRAWING NOTES:
1. REMOVE EXISTING LIGHTING ROD AND WIRING FROM LIGHT TOWER TO ALLOW FOR THE REMOVAL AND REVITALIZATION OF THE LIGHT TOWER. EXISTING WIRING TO REMAIN FOR USE WHEN LIGHT TOWER IS REINSTATED.
2. INSTALL EXISTING LIGHTING ROD AND WIRING ONCE LIGHT TOWER HAS BEEN REINSTATED. MAKE TERMINATIONS AS REQUIRED.

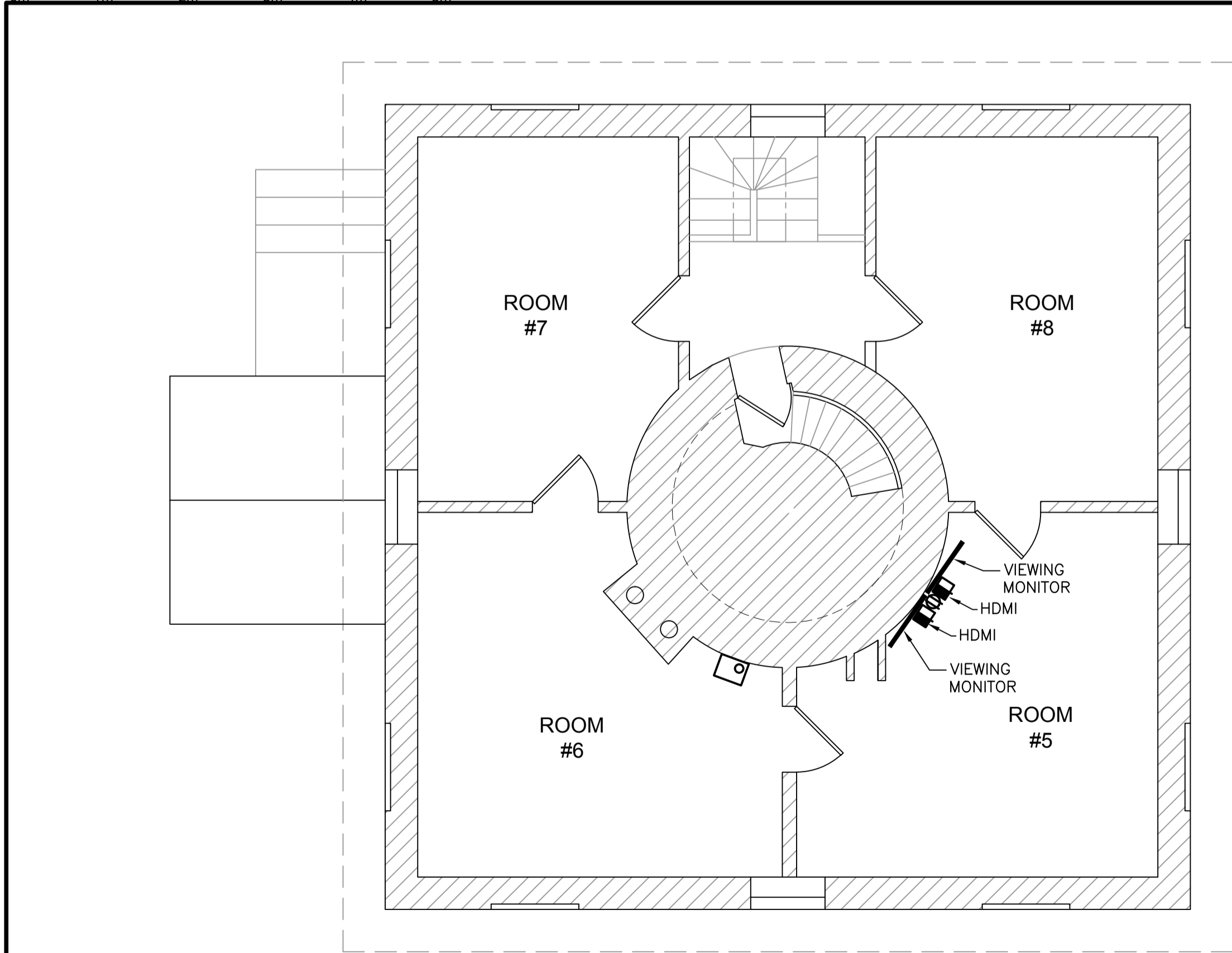


TOWER / ROOF PLAN - EXISTING CONDITIONS

1
A2

FIRST FLOOR PLAN - EXISTING CONDITIONS

2
A2

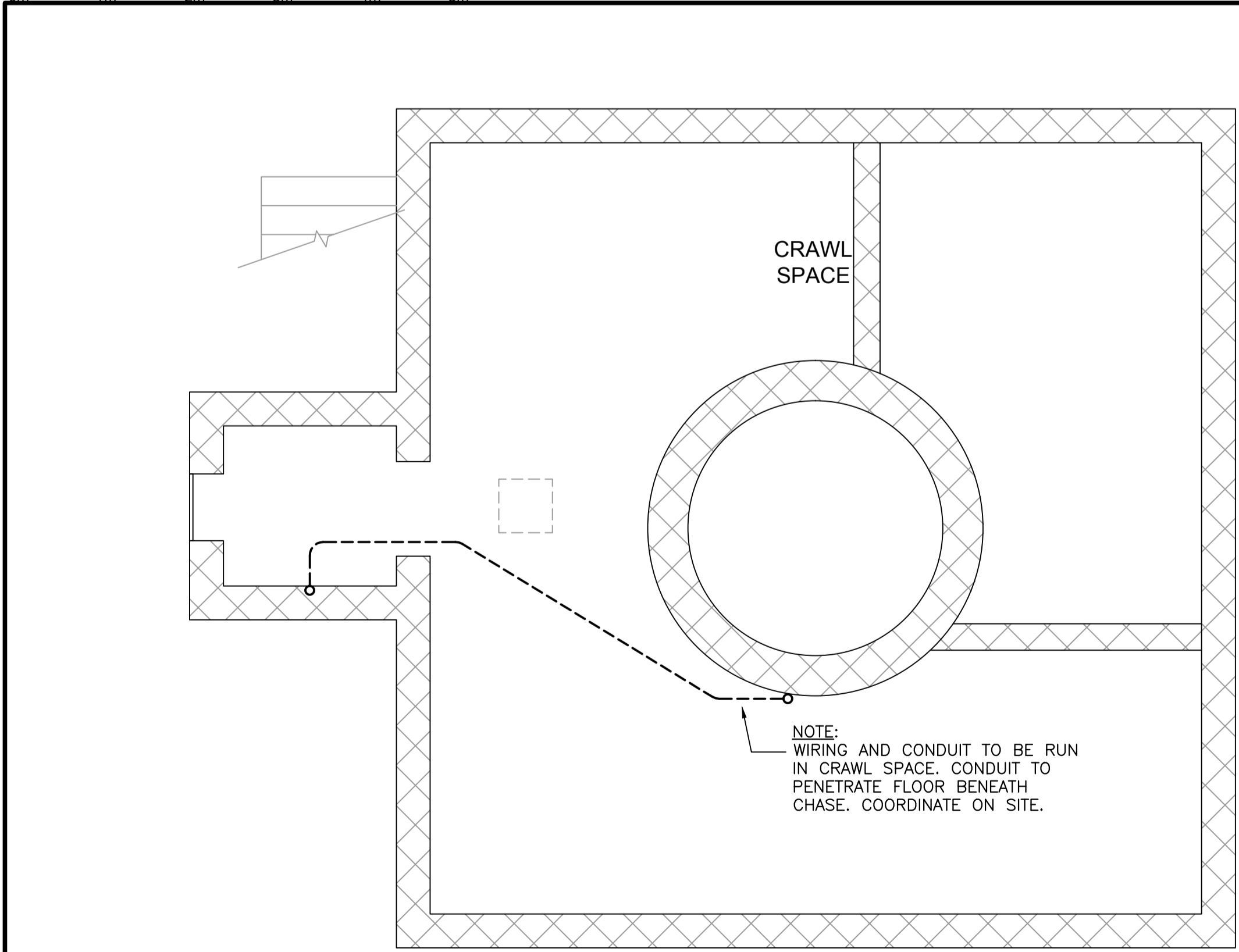


SECOND FLOOR PLAN - EXISTING CONDITIONS

3
A2

CRAWL SPACE PLAN - EXISTING CONDITIONS

1
A2



0	ISSUED FOR TENDER	FEB 09 2018
revisions		date
project		projct

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

ELECTRICAL LAYOUTS

designed	F. EARLE	conçu
date	FEB. 2018	
drawn	B. COLLETT	dessiné
date	FEB. 2018	
approved		approuvé
date		
Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	no. du projet	
	PCAN5582.00	
drawing no.	no. du dessin	
	E1	

ARCHITECT:

Gibbons + Snow architects

Suite 201
Caledonia Place
40 Quidi Vidi Road
St. John's, NL
A1A 1C1

Tel: 709.738.4422
Fax: 709.738.4455

GSA #: 16-6100-01

ELECTRICAL CONSULTANT:

CROSBIE ENGINEERING LTD.
CONSULTING ENGINEERS

21 West Place, 2nd Floor, St. John's, NL A1B 4K5
Tel: (709) 754-1911
Fax: (709) 754-1960
admin@crobieeng.com

STAMP:

PROFESSIONAL ENGINEER
08501 Frederick Earle
REGISTERED FEB 09/18
NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER Class "A" This Permit Allows **CROSBIE ENGINEERING LIMITED** to practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEG-NS 05123 which is valid for the year 2018.

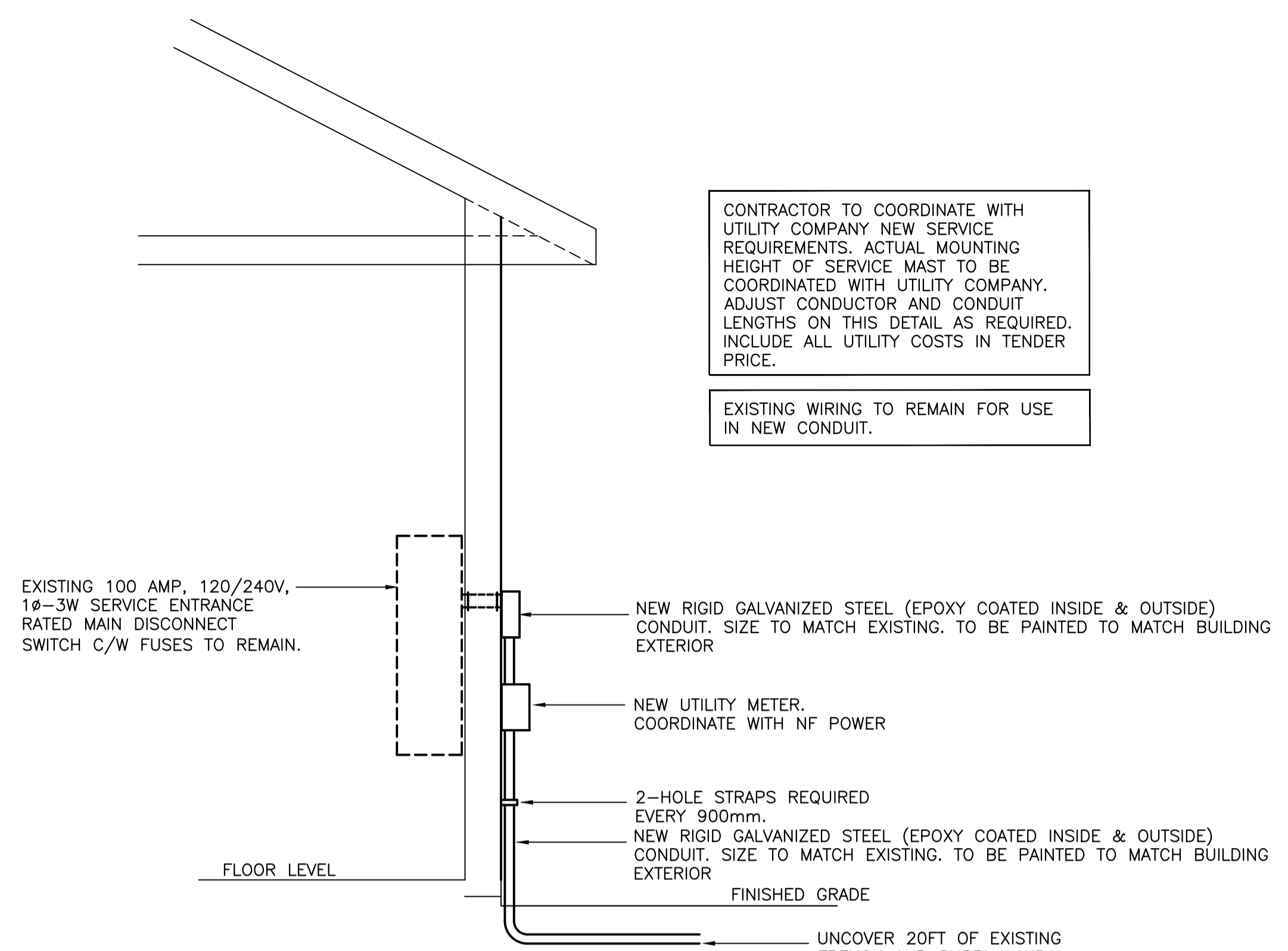
0	ISSUED FOR TENDER	FEB 09 2018
revisions		date

project CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

ELECTRICAL DETAILS

designed	F. EARLE	conçu
date	FEB. 2018	
drawn	B. COLLETT	dessiné
date	FEB. 2018	
approved		approuvé
date		
Tender		Soumission
PWGC Project Manager	Administrateur de projets TPSGC	
project number	no. du projet	
PCAN5582.00		
drawing no.	no. du dessin	

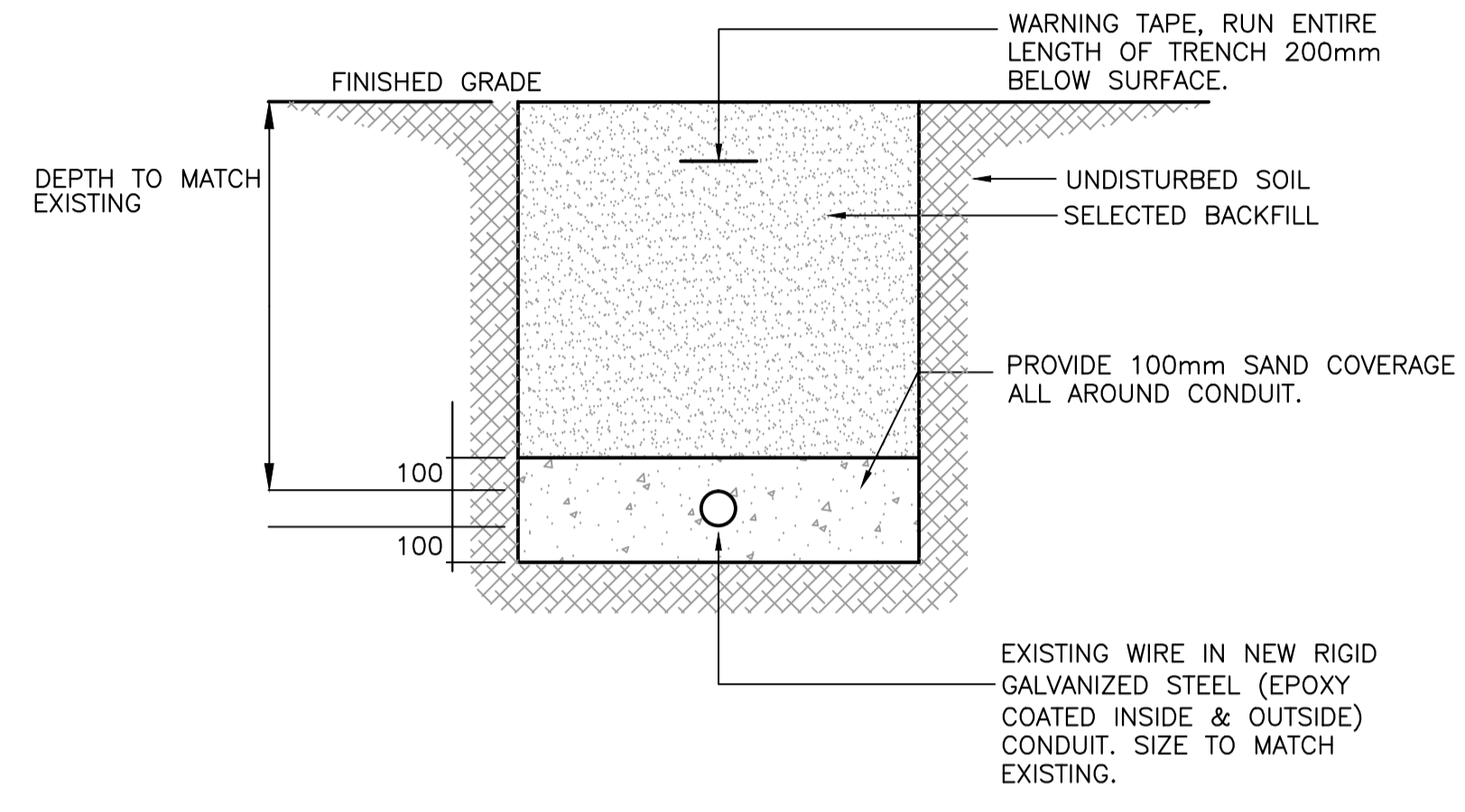
E2



SERVICE ENTRANCE DETAIL
N.T.S

CONTRACTOR TO COORDINATE WITH UTILITY COMPANY NEW SERVICE REQUIREMENTS. ACTUAL MOUNTING HEIGHT OF SERVICE MAST TO BE COORDINATED WITH UTILITY COMPANY. ADJUST CONDUCTOR AND CONDUIT LENGTHS ON THIS DETAIL AS REQUIRED. INCLUDE ALL UTILITY COSTS IN TENDER PRICE.

EXISTING WIRING TO REMAIN FOR USE IN NEW CONDUIT.



TRENCH DETAIL
N.T.S

LEGEND

WIRING DEVICES

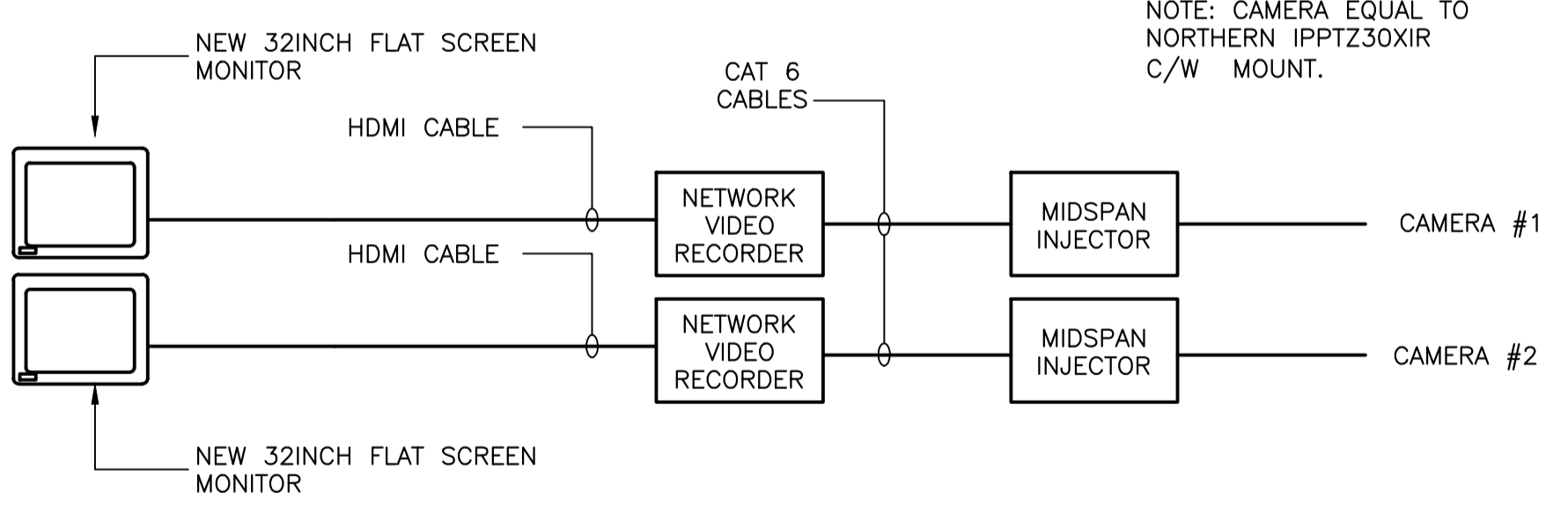
DUPLEX U-GROUND RECEPTACLE. 120 VOLT, 15 AMP, SPECIFICATION GRADE. WHITE & C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR. UTILIZE EXISTING SPARE 15 AMP BREAKER. (2 #12 RW90 + 1 #12 TW GRD IN 21mm EMT CONDUIT)

DATA/TELEPHONE/CABLE

HDMI OUTLET C/W COVERPLATE. WALL MOUNT 400mm A.F.F. UNLESS OTHERWISE NOTED. PROVIDE 21mm EMT RUN FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE, C/W HDMI CABLE.

SECURITY SYSTEM

SECURITY CAMERA.



SECURITY RISER DETAIL
N.T.S

NOTE: CAMERA EQUAL TO NORTHERN IPPTZ30XIR C/W MOUNT.

NOTES:

- SUPPLY AND INSTALL ALL DEVICES AS PER MANUFACTURERS REQUIREMENTS. ALL LOW VOLTAGE WIRING TO BE INSTALLED IN 21mm. EMT CONDUIT OR WIREMOLD AS REQUIRED.
- EXACT LOCATIONS OF ALL DEVICES TO BE COORDINATED ON SITE. REFER TO FLOOR PLAN FOR DEVICE LOCATION AND QUANTITY.
- CONTRACTOR SHALL SUPPLY AND ADJUST CAMERA LENS FIELD OF VIEW AT SITE TO MEET CUSTOMER SITE REQUIREMENTS. PROVIDE ALL REQUIRED LENSES.
- PRODUCTS LISTED ARE THE STANDARD OF ACCEPTANCE. APPROVED EQUALS SHALL BE CONSIDERED.