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no.	description	date
B	ISSUED FOR TENDER	29-MAY-2017
A	ISSUED FOR REVIEW	07-APR-2017

project
 projet

OTTAWA, ONTARIO
 NCC RESIDENCE #1
 TRAVEL RESTRAINT
 SYSTEM UPGRADES

drawing
 dessin

COVER PAGE

reviewed by / vérifié par: D. WALKER
 designed by / conçu par: H. RIVERA
 drawn by / dessiné par: S. MARCOLINI
 date: APRIL, 2017 scale / échelle: AS SHOWN

NCC project no. / no. du projet de la CCN: --- sheet no. / no. de la feuille: CVR

NCC RESIDENCE, OTTAWA ONTARIO
 TRAVEL RESTRAINT SYSTEM UPGRADE

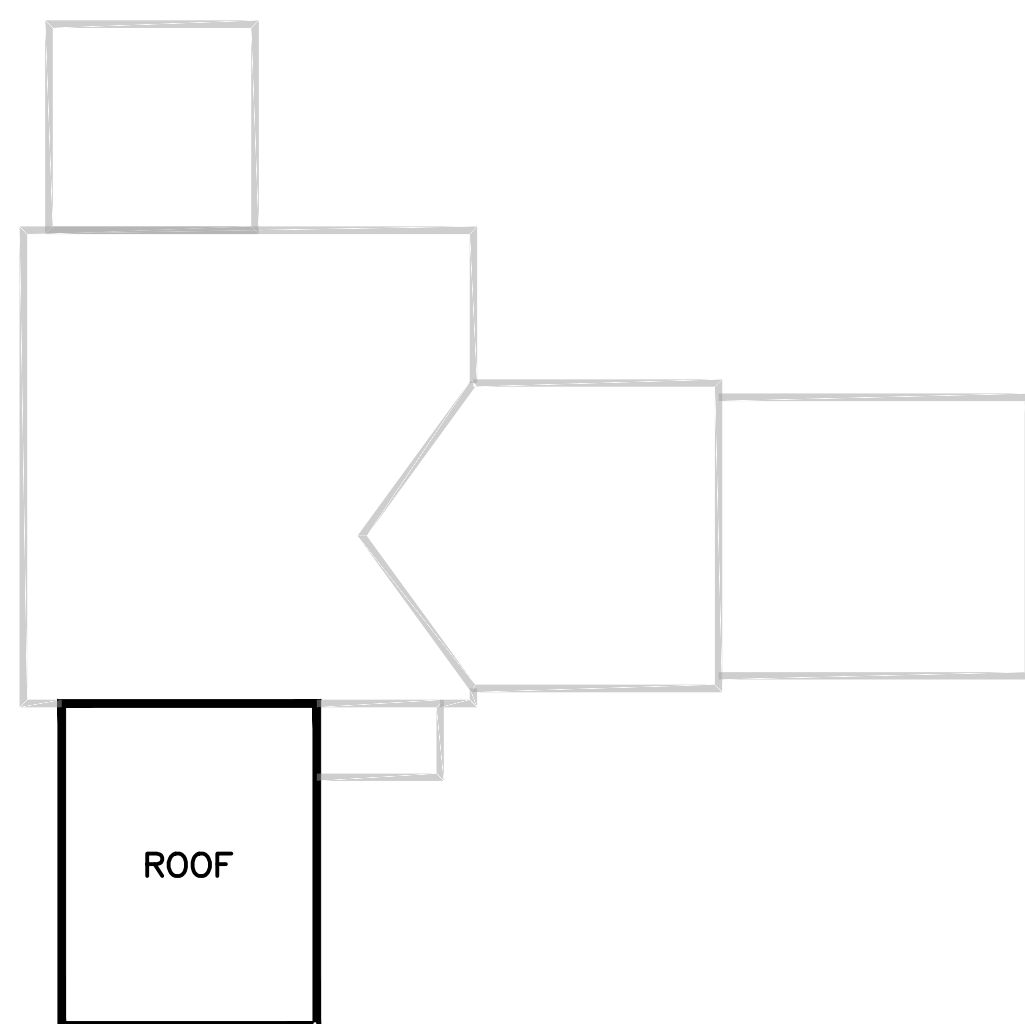
LIST OF DRAWINGS:

TRAVEL RESTRAINT SYSTEM

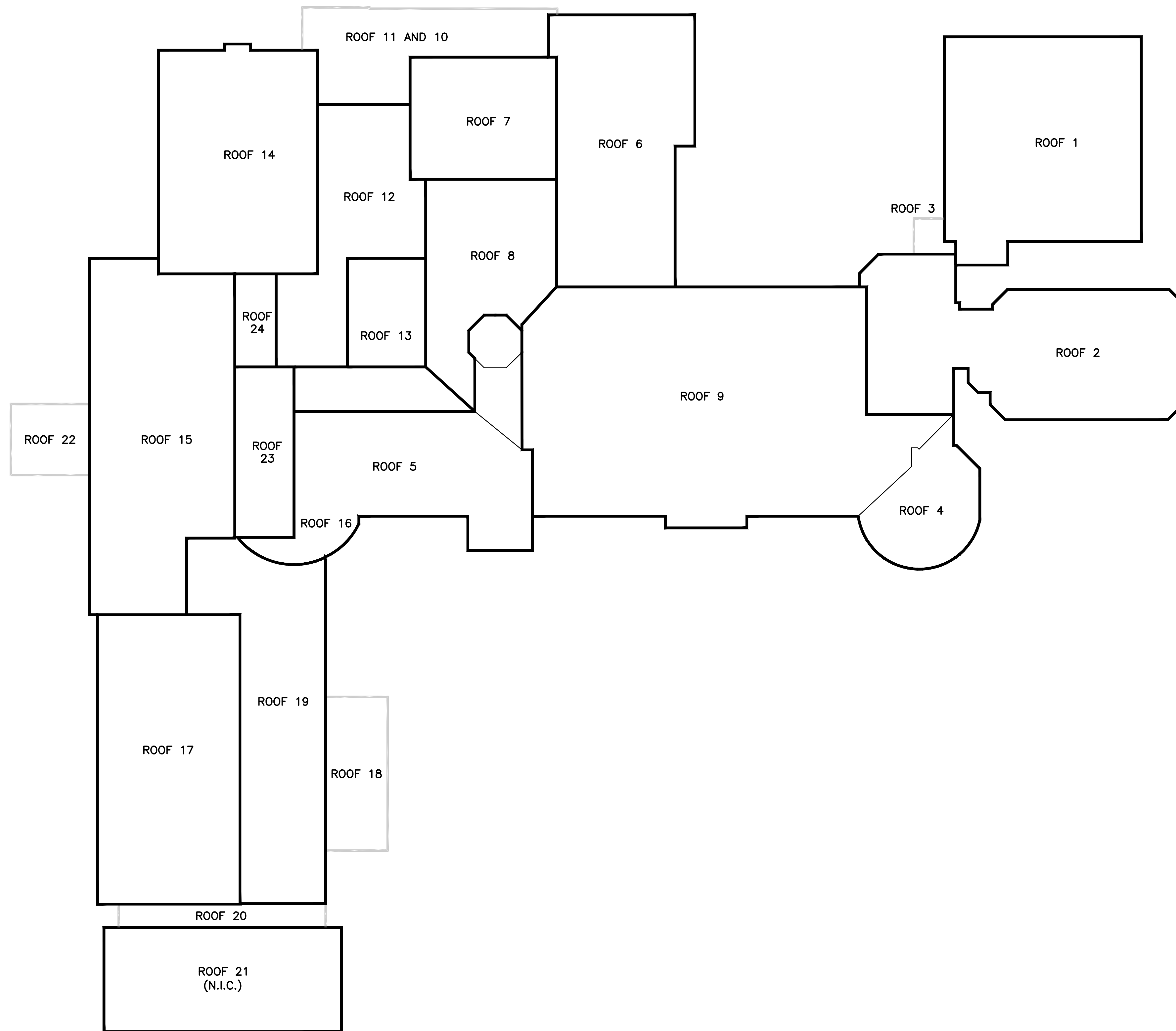
- R100- OVERALL ROOF PLAN
- R101- ROOF 1 PLANS AND DETAILS
- R102- ROOF 2 PLANS AND DETAILS
- R103- ROOF 5, 16, & 23 PLANS AND DETAILS
- R104- ROOF 4, & 9 PLANS AND DETAILS
- R105- ROOF 6 PLANS AND DETAILS
- R106- ROOF 7 PLANS AND DETAILS
- R107- ROOF 8 PLANS AND DETAILS
- R108- ROOF 12 PLANS AND DETAILS
- R109- ROOF 14 PLANS AND DETAILS
- R110- ROOF 15 PLANS AND DETAILS
- R111- ROOF 17 PLANS AND DETAILS
- R112- ROOF 19 PLANS AND DETAILS
- R113- CANCELED (N.I.C)
- R114- ROOF 23 PLANS AND DETAILS
- R115- ROOF 24 PLANS AND DETAILS
- R116- 7 RIDEAU GATE ROOF PLAN AND DETAILS

ROOFING

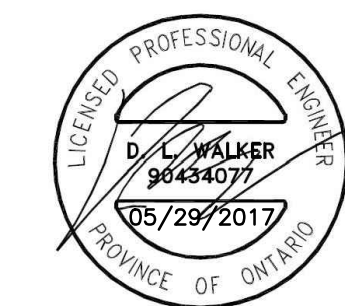
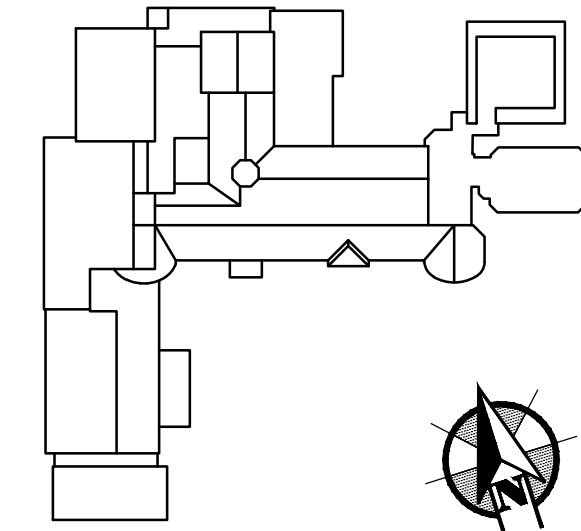
- R117- ROOFING DETAILS



RESIDENCE #2- ROOF AREA LAYOUT



RESIDENCE #1- ROOF AREA LAYOUT



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**NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES**

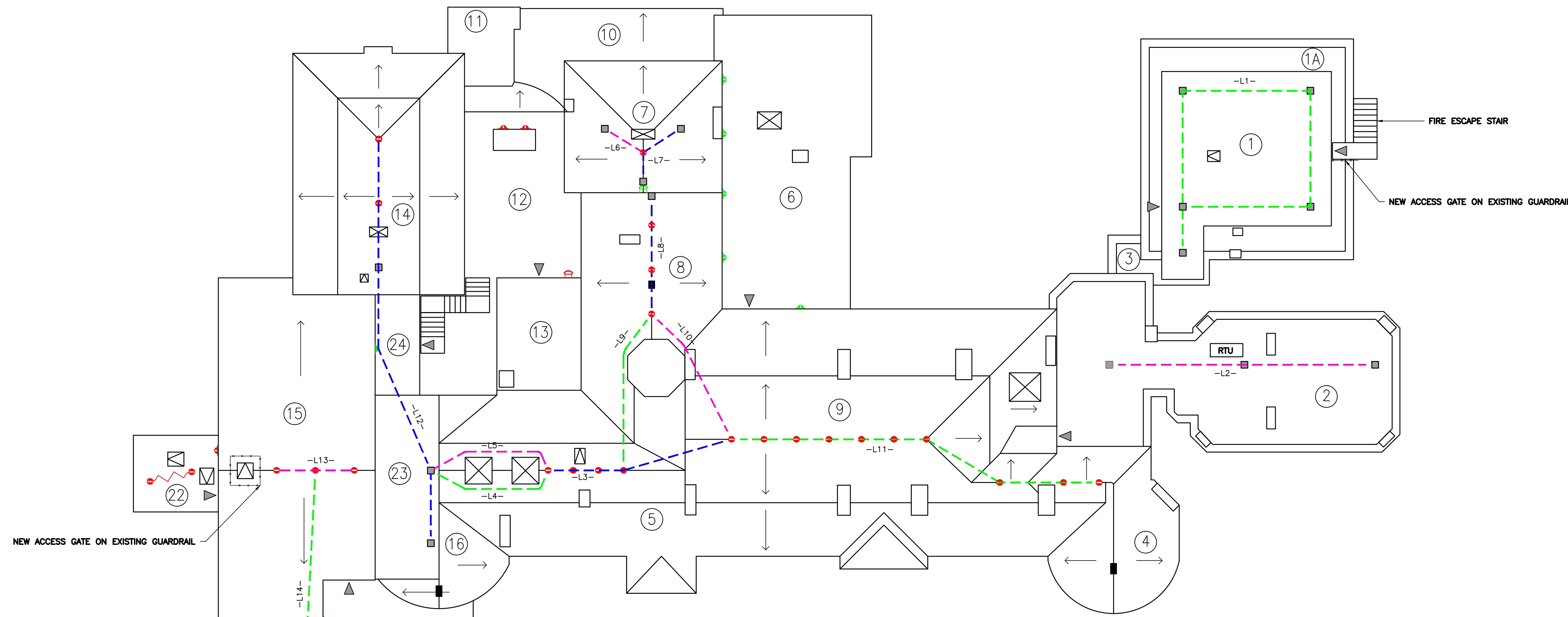
drawing
dessin

OVERALL ROOF PLAN

reviewed by vérifié par	D. WALKER
designed by conçu par	H. RIVERA
drawn by dessiné par	S. MARCOLINI
date	APRIL, 2017
scale échelle	AS SHOWN

NCC project no. sheet no.
no. du projet de la CCN no. de la feuille

R100



NOTE:
EXISTING SYSTEMS SHOWN IN RED

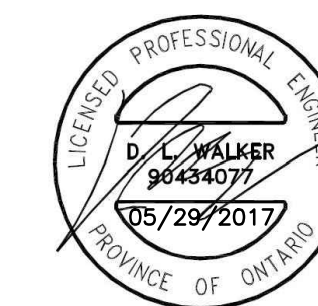
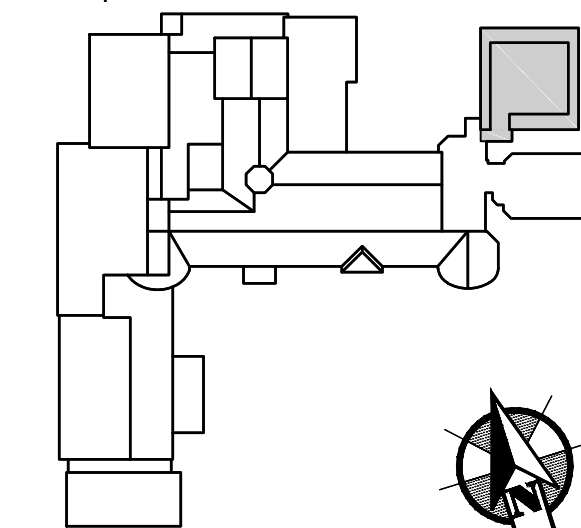
LEGEND:

	EXISTING ROOF ANCHOR
	EXISTING WALL ANCHOR
	EXISTING HORIZONTAL LIFELINE
	EXISTING ROOFERS ANCHOR TO BE REMOVED
	EXISTING SKYLIGHT
	EXISTING ROOF ACCESS LADDER
	NEW ROOF ANCHOR
	NEW HORIZONTAL LIFELINE
	NEW ANCHOR MOUNTED ON WALL OR RTU
	NEW ROOF ACCESS LADDER
	EXISTING GUARDRAIL TO BE MODIFIED
	ROOF ACCESS DOOR/WINDOW
	ROOF SLOPE
N.I.C.	NOT IN CONTRACT
	EXISTING CHIMNEY OR OTHERS
	ROOF NUMBER

- GENERAL NOTES:**
- CHECK ALL DIMENSIONS ON DRAWING WITH SITE CONDITIONS. REPORT ANY INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS.
 - COORDINATE ALL WORK WITH THE CONSULTANT AND BUILDING PERSONNEL.
 - PROVIDE FULL SHOP DRAWINGS INDICATING FULL MEMBER DETAILS AND CONNECTIONS.
 - SUBMIT CUT SHEETS OF ALL MANUFACTURED PRODUCTS TO BE USED FOR REVIEW AND APPROVAL BY WSP PRIOR TO ANY PURCHASE/INSTALLATION.
 - SUBMIT SAMPLE OF MATERIALS TO BE USED ON REQUEST.
 - ALL WORK SHALL COMPLY WITH CURRENT PROVISIONS OF THE ONTARIO BUILDING CODE OR NATIONAL BUILDING CODE - WHICHEVER IS MORE STRINGENT INCLUDING LATEST REVISIONS AND REFERENCED STANDARDS, CANADA LABOUR CODE, WORKERS' COMPENSATION ACT, MINISTRY OF LABOUR REQUIREMENTS, AND BEST TRADE PRACTICES.
 - THIS PROJECT WAS DESIGNED TO:
 - 2012 ONTARIO BUILDING CODE (OBC 2012);
 - OCCUPATIONAL HEALTH AND SAFETY ACT REGULATION 859 'REGULATION FOR WINDOW CLEANING' (REG. 859);
 - CSA STANDARD Z91-02 (R2008) 'HEALTH AND SAFETY CODE FOR SUSPENDED EQUIPMENT OPERATIONS' (CSA Z91);
 - CSA STANDARD Z271-10 'SAFETY CODE FOR SUSPENDED ELEVATING PLATFORMS' (CSA Z271);
 - CSA STANDARD Z259.16-04 'DESIGN OF ACTIVE FALL-PROTECTION SYSTEMS' (CSA Z259.16);
 - ONTARIO HEALTH AND SAFETY GUIDELINES - ENGINEERING DATA SHEET 2-04 FIXED ACCESS LADDERS;
 - AMERICAN NATIONAL STANDARDS INSTITUTE INC. (ANSI) - ANSI 14.3 - 2010 AMERICAN STANDARD FOR LADDERS - FIXED - SAFETY REQUIREMENTS.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF EXISTING SITE FEATURES AND EQUIPMENT, AND FOR REMOVING EXCESS MATERIALS AND CLEANING UP ON COMPLETION OF THE WORK.
 - BEFORE SUBMITTING TENDERS CONTRACTORS SHALL CAREFULLY EXAMINE THE DRAWINGS, SPECIFICATIONS, AND EXISTING SITE CONDITIONS TO ESTABLISH THE EXTENT OF WORK.
- WARRANTY:**
- PROVIDE A ONE (1) YEAR WARRANTY FOR ALL MATERIALS AND WORKMANSHIP, INCLUDING ROOF/WALL LEAK WARRANTY.
- REFERENCE STANDARDS:**
- ALL MATERIALS AND METHODS AND WORKMANSHIP TO THE FOLLOWING STANDARDS:
 - STRUCTURAL STEEL - TO CAN/CSA S16-14.
 - STEEL WIRE ROPE - TO CSA G4-15 STEEL WIRE ROPE FOR GENERAL PURPOSE AND FOR WIRE HOISTING AND MINE HAULAGE.
 - TRAVEL RESTRAINT SYSTEM - TO CSA STANDARD Z259.16, Z91 'DESIGN OF ACTIVE FALL-PROTECTION SYSTEM', AND Z271 TO 'SAFETY CODE FOR SUSPENDED ELEVATING PLATFORMS', (R2008) 'HEALTH AND SAFETY CODE FOR SUSPENDED EQUIPMENT OPERATIONS'.
 - WELDING - TO CSA W59 AND W47, E480XXCH ELECTRODES CONFORMING TO CSA W48.3.
 - GALVANIZING - TO CAN/CSA G-164 HOT-DIP GALVANIZING OF IRREGULAR SHAPED ARTICLES.
 - STRUCTURAL STEEL:
 - BASIC REQUIREMENT - HSS GRADE G40.21, 350W, CLASS H, F_y=350 MPA.
 - PLATES - 300W
 - BOLTS, NUTS AND WASHERS - TO ASTM A325M
 - THREADED ROD - TO ASTM A307M
 - PRIMER - TO COSIP 1-0P-10M, RE-COATABLE EPOXY BY APPLIED IN ONE COAT AT 4 TO 6 MILS DRY FILM THICKNESS.
 - PAINT - TO BE HI-SOLIDS POLYURETHANE APPLIED IN TWO COATS AT 2.5 TO 3.5 MILS DRY FILM THICKNESS PER COAT.
 - MASONRY:
 - MORTAR - TYPE S, TO TABLE 1 OF CSA-A179.
 - GROUT - TABLE 3 OF CSA-A179.
 - STRUCTURAL LUMBER:
 - GENERAL MATERIAL - TO BE SPF #2 OR BETTER UNLESS OTHERWISE NOTED.
 - PLYWOOD ROOF SHEATHING - TO BE 16 MM CONSTRUCTION GRADE, EXTERIOR GRADE, 0300-ONE-SIDE SOFTWOOD TO CAN/CSA-0151 OR DOUGLAS FIR PLYWOOD TO CAN/CSA 0121 - LATEST REVISIONS.
 - NAILS - TO CSA--B111, COMMON NAILS TO BE GALVANIZED SPIRAL ARROW.
 - FASTENERS:
 - ADHESIVE ANCHORS INTO CONCRETE/STONE - TO BE 19 MM DIAMETER, HLTi HIT-HY 200, EMBEDMENT AS INDICATED ON DRAWINGS.
 - ADHESIVE ANCHORS INTO MASONRY - TO BE 19 MM DIAMETER, HLTi HIT-HY 70, EMBEDMENT AS INDICATED ON DRAWINGS.
 - ACCESSORIES:
 - STEEL CABLE - TO BE 10MM (3/8") DIA., 7X19 GALVANIZED AIRCRAFT STEEL CABLE, WITH A MINIMUM BREAKING STRENGTH 54.3 KN (12,200 LBS).
 - THIMBLES AND CLIPS - ALL THIMBLES AND CLIPS TO BE USED WITH CABLE TO BE HOT-DIP GALVANIZED.
 - SHACKLES - HOT-DIP GALVANIZED STEEL SHACKLES C/W 5/8" BOLT WITH LOCK NUT, WITH A MINIMUM WORKING LOAD LIMIT OF 28.9 KN (6,500 LBS).
 - SYNTHETIC ROPE - TO BE 16MM (5/8") DIA. POLYPROPYLENE ROPE COMPLETE WITH A GALVANIZED STEEL THIMBLE, MINM WORKING LOAD OF 24.8 KN (5,580 LBS).
 - SHOCK ABSORBER - ZORBITM ENERGY ABSORBER KIT BY DSI-SALA
 - STATIC SAFETY LINE (ROOF NO.15) - TO BE TRACTEL STOPCABLE OR APPROVED EQUIVALENT.
- EXECUTION**
1. GENERAL:
- UNDERTAKE EXECUTION OF ALL WORK IN ACCORDANCE WITH APPLICABLE REFERENCE STANDARDS, REGULATIONS, SPECIFICATION AND DRAWINGS.
 - DO NOT INCREASE OR DECREASE THE STEEL CABLE CUSP SAG INDICATED.
2. FABRICATION:
- PRIOR TO FABRICATION OF STRUCTURAL ELEMENTS SITE VERIFY EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES AND AMAT INSTRUCTIONS. ALL PARTS TO BE FREE OF SHARP EDGES, BURRS, OR OTHER LIKE DETAILS.
 - WELDING: UNLESS INDICATED OTHERWISE PROVIDE 6 MM FILLET WELD OR FULL GROOVE WELD. ALL PARTS TO BE FREE OF SHARP EDGES, BURRS, OR OTHER LIKE DETAILS. ALL WELDING INFORMATION IS TO BE CLEARLY INDICATED ON THE SHOP.
3. MANUFACTURED PRODUCTS:
- TO BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS IN TERMS OF MATERIALS, PREPARATION, APPLICATION AND INSTALLATION. ALTERNATE PRODUCTS TO BE APPROVED EQUIVALENT.
4. REINSTATEMENT:
- SUPPLY AND INSTALLATION OF ROOF ANCHORS INCLUDE THE REINSTATEMENT OF ALL WALL AND CEILING FINISHES, AS WELL AS THE REPAIR TO ROOF ASSEMBLIES. ALL TO MATCH EXISTING ORIGINAL CONDITIONS.

1 OVERALL ROOF PLAN - ROOF ANCHOR LAYOUT NETWORK
R100 1:200





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SYSTEM UPGRADES**

drawing
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**ROOF AREA 1
PLAN AND DETAILS**

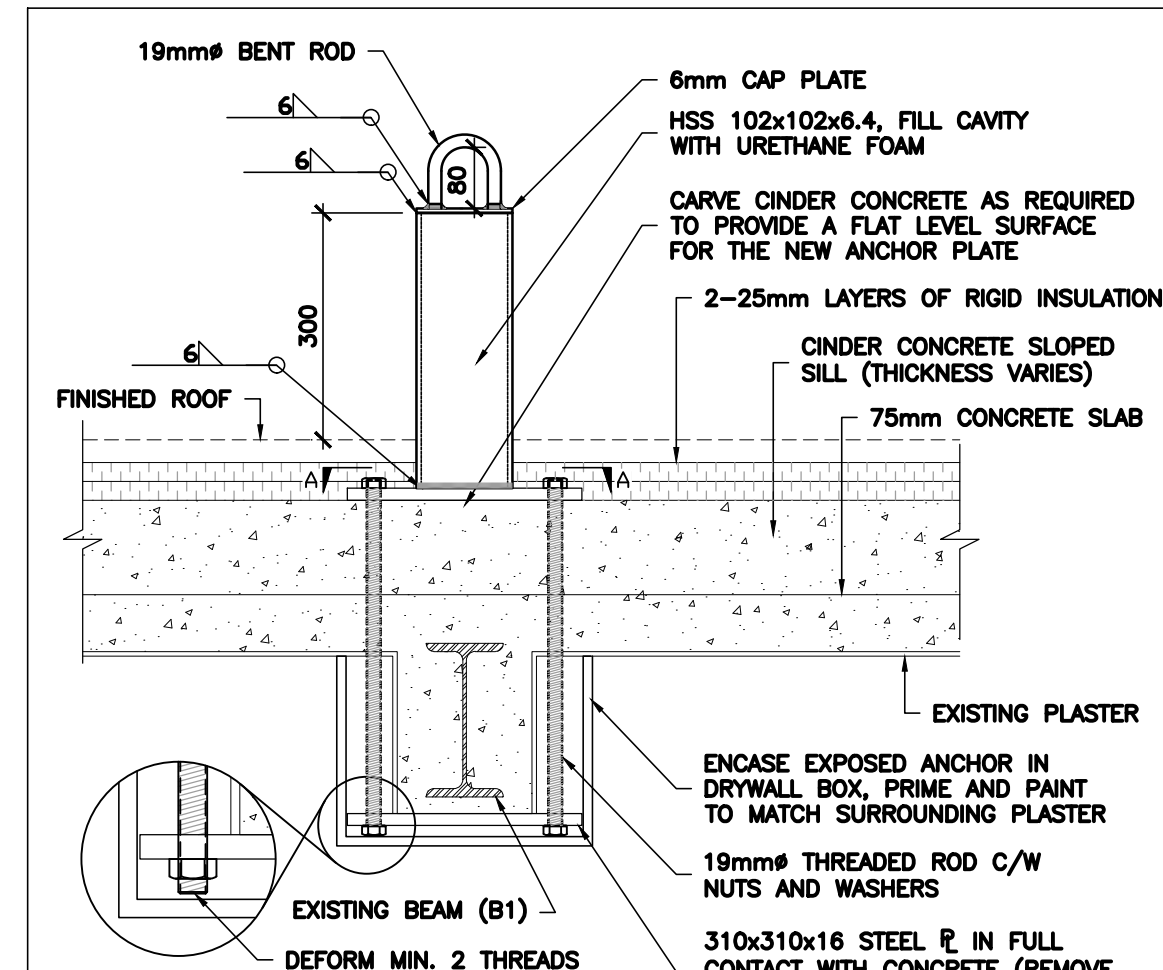
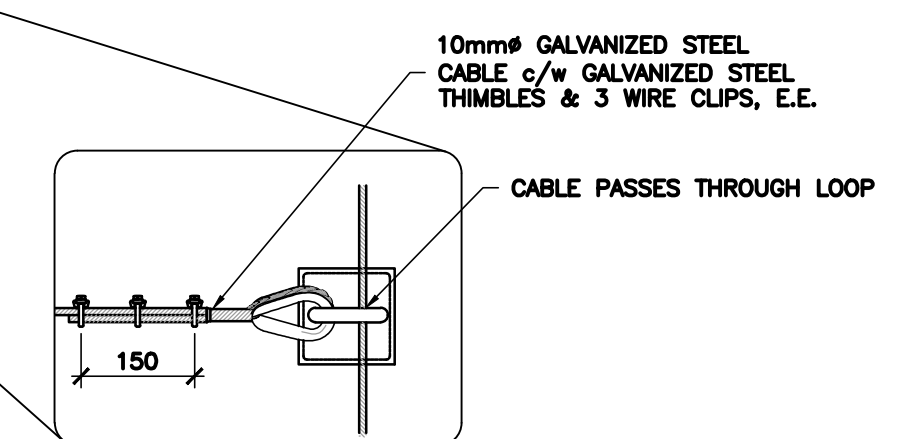
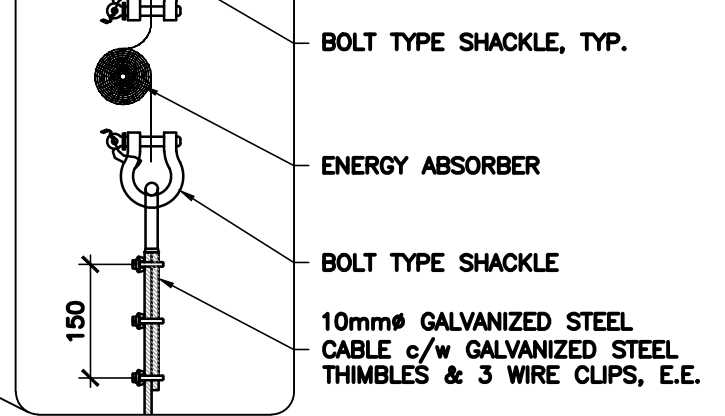
reviewed by vérifié par	D. WALKER
designed by conçu par	H. RIVERA
drawn by dessiné par	S. MARCOLINI

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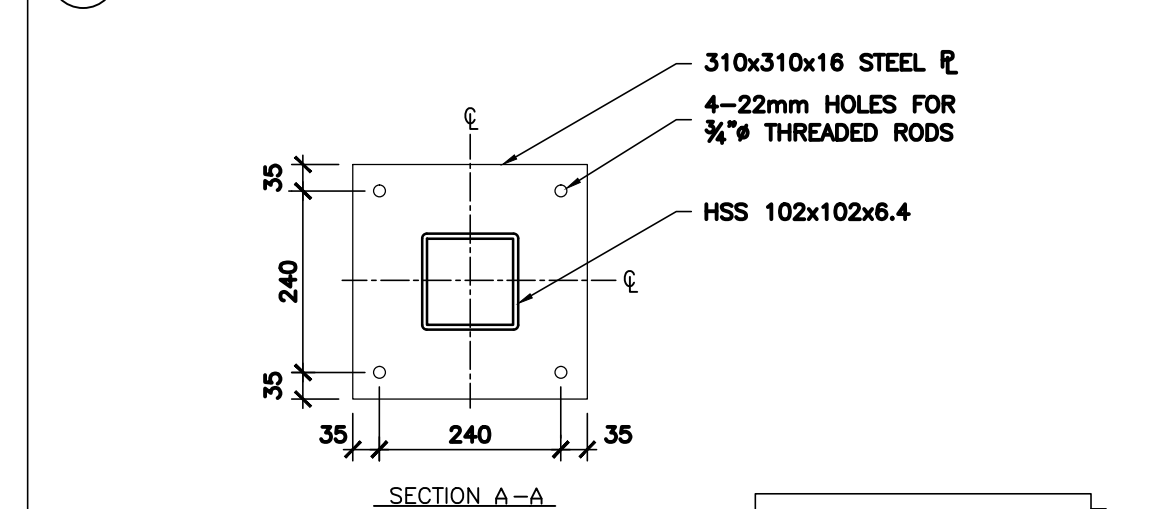
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R101

1 ROOF FRAMING PLAN
N.T.S.

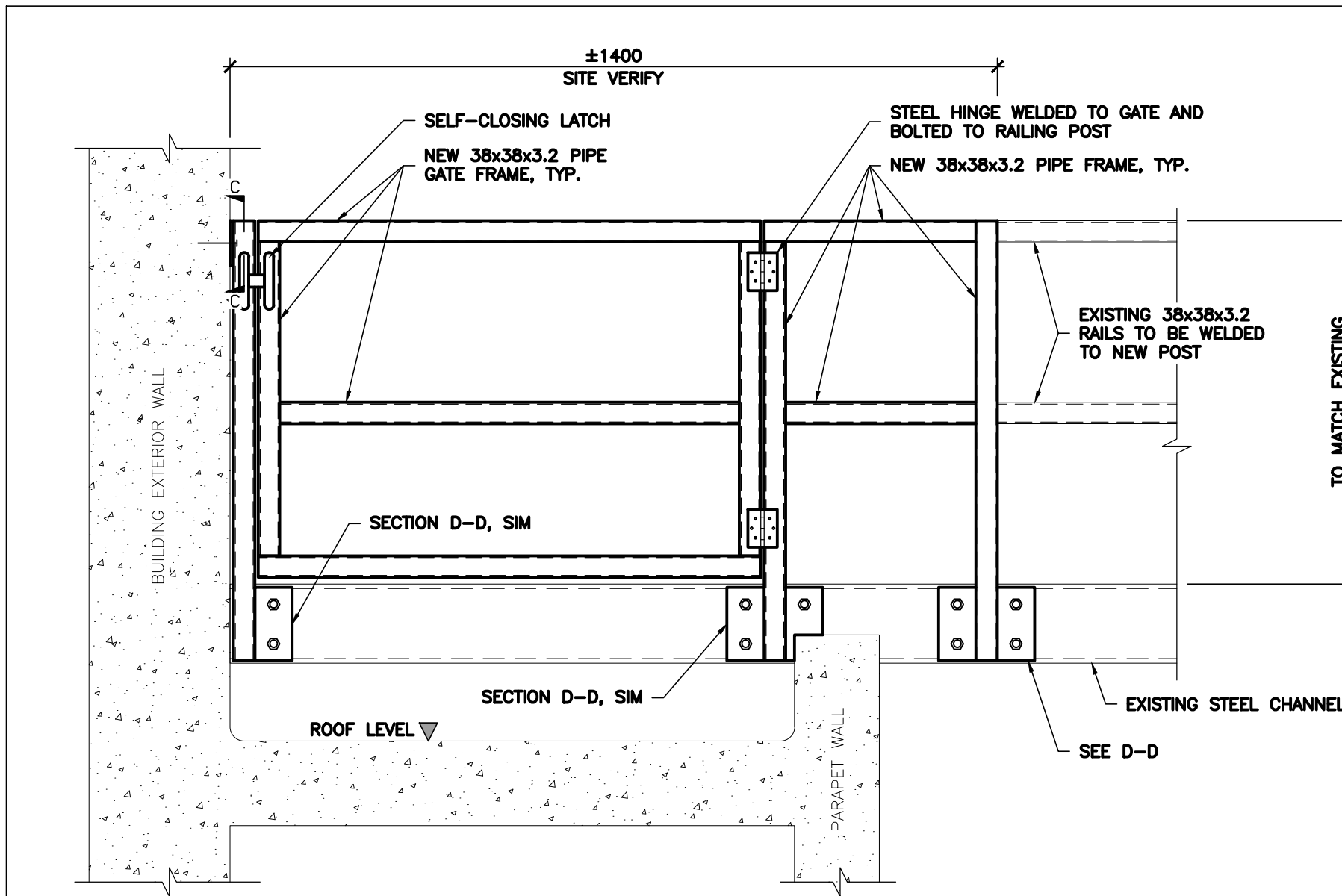


2 DETAIL - ROOF ANCHOR
N.T.S.

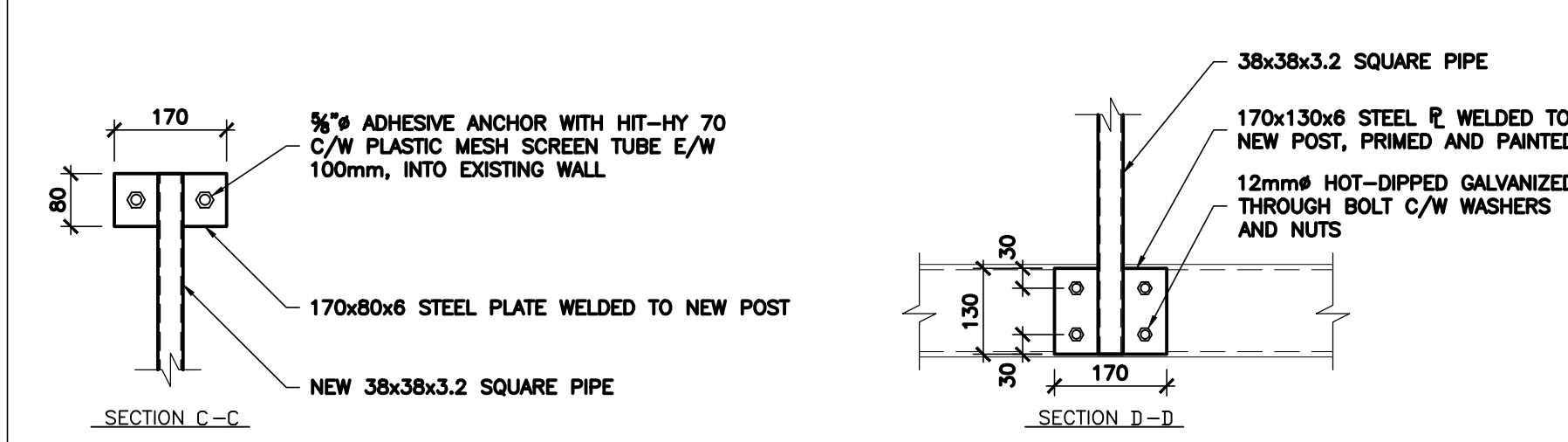


NOTE: REFER TO R117 FOR ROOFING DETAILS

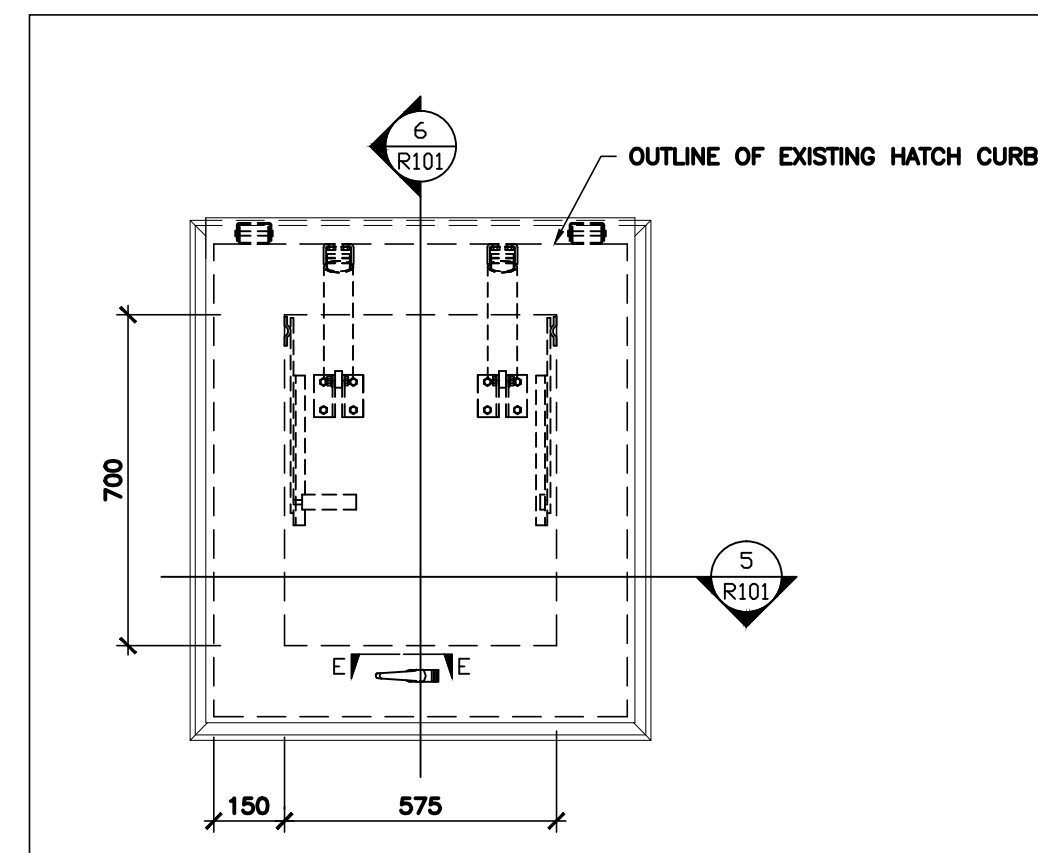
NOTE: ALL STEEL TO BE HOT-DIP GALVANIZED.



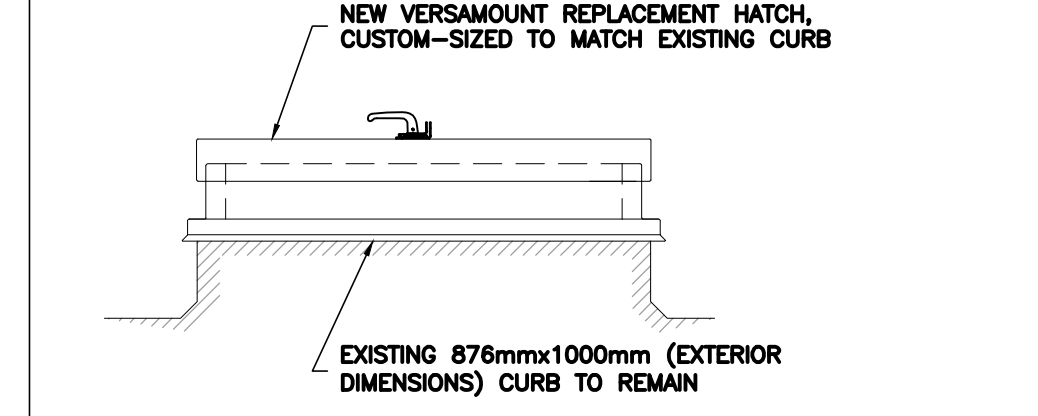
3 DETAIL - GUARDRAIL GATE
N.T.S.



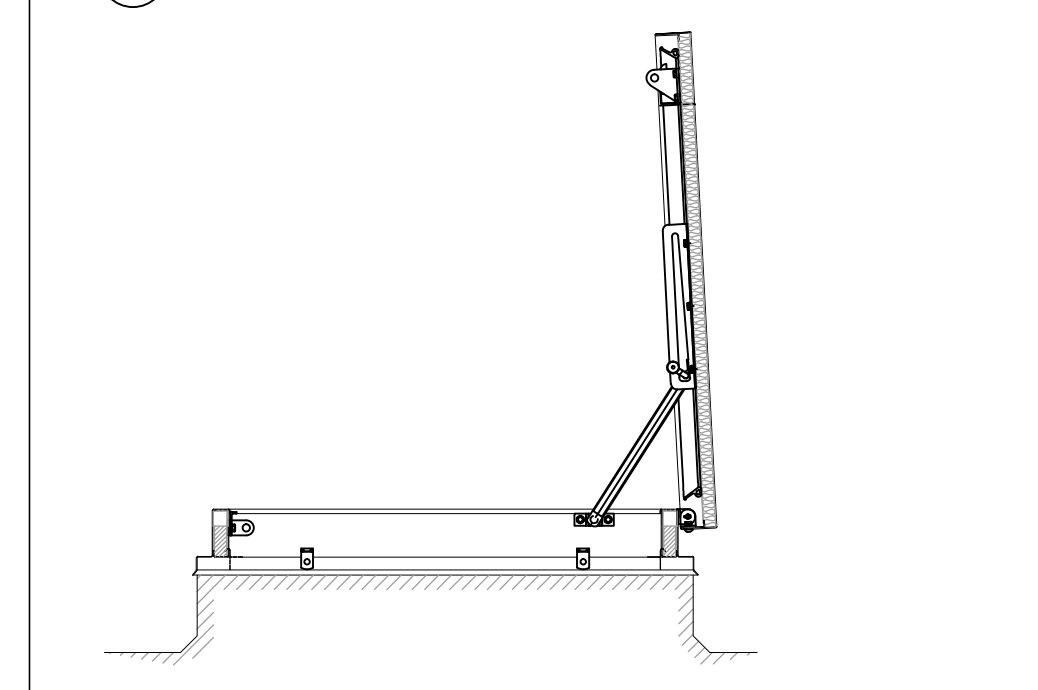
NOTE: ALL NEW STEEL TO BE PRIMED AND PAINTED



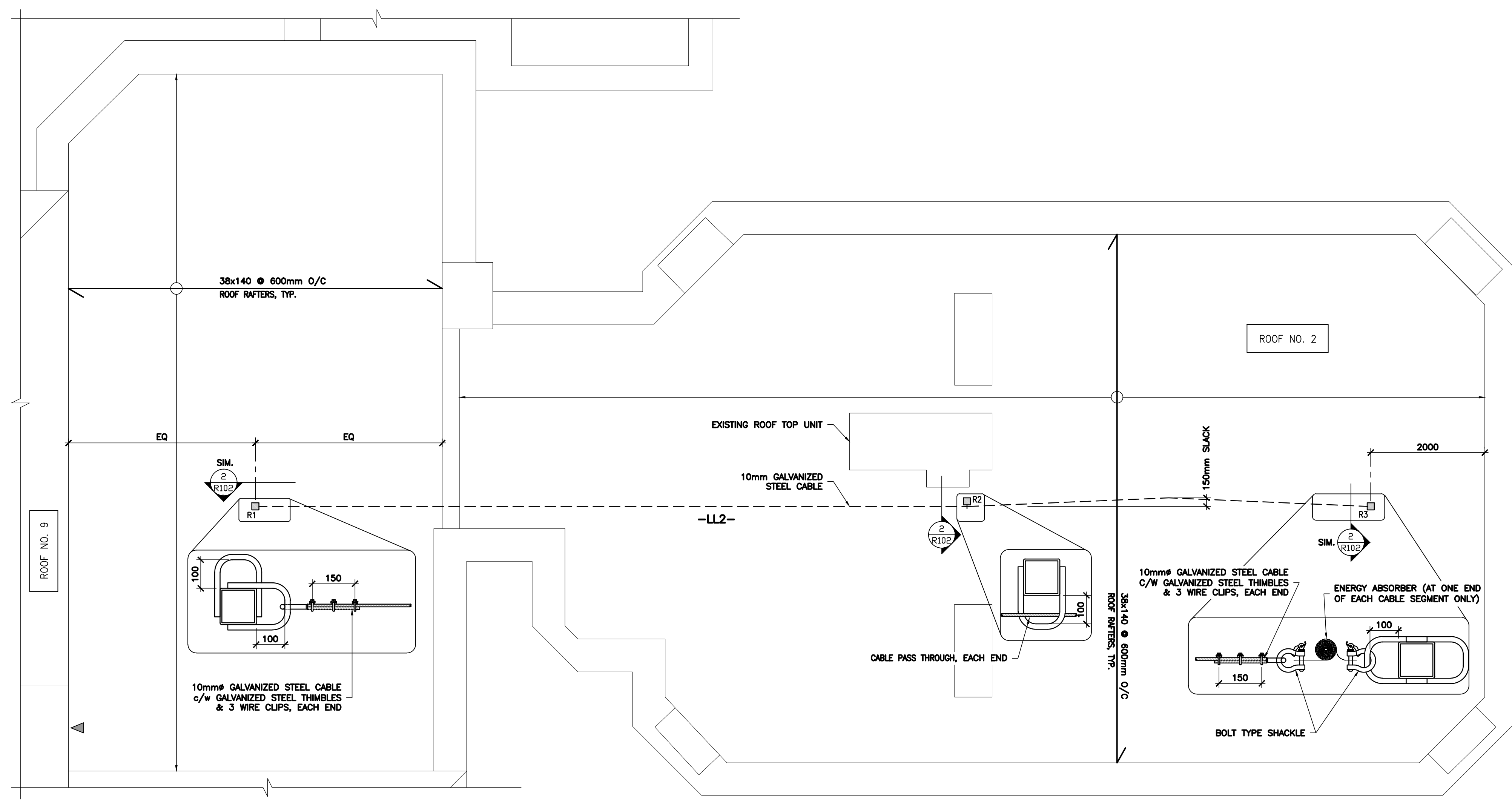
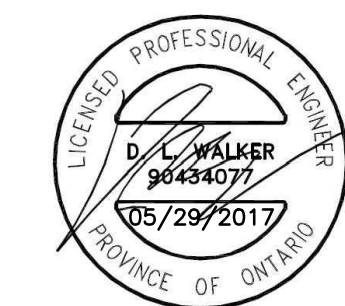
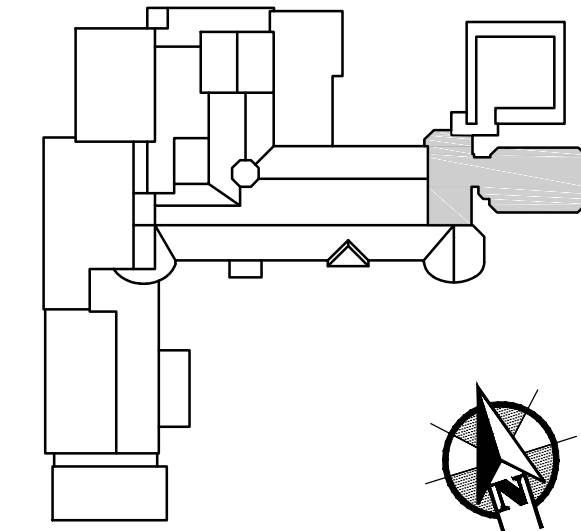
4 PLAN - ROOF ACCESS HATCH
N.T.S.



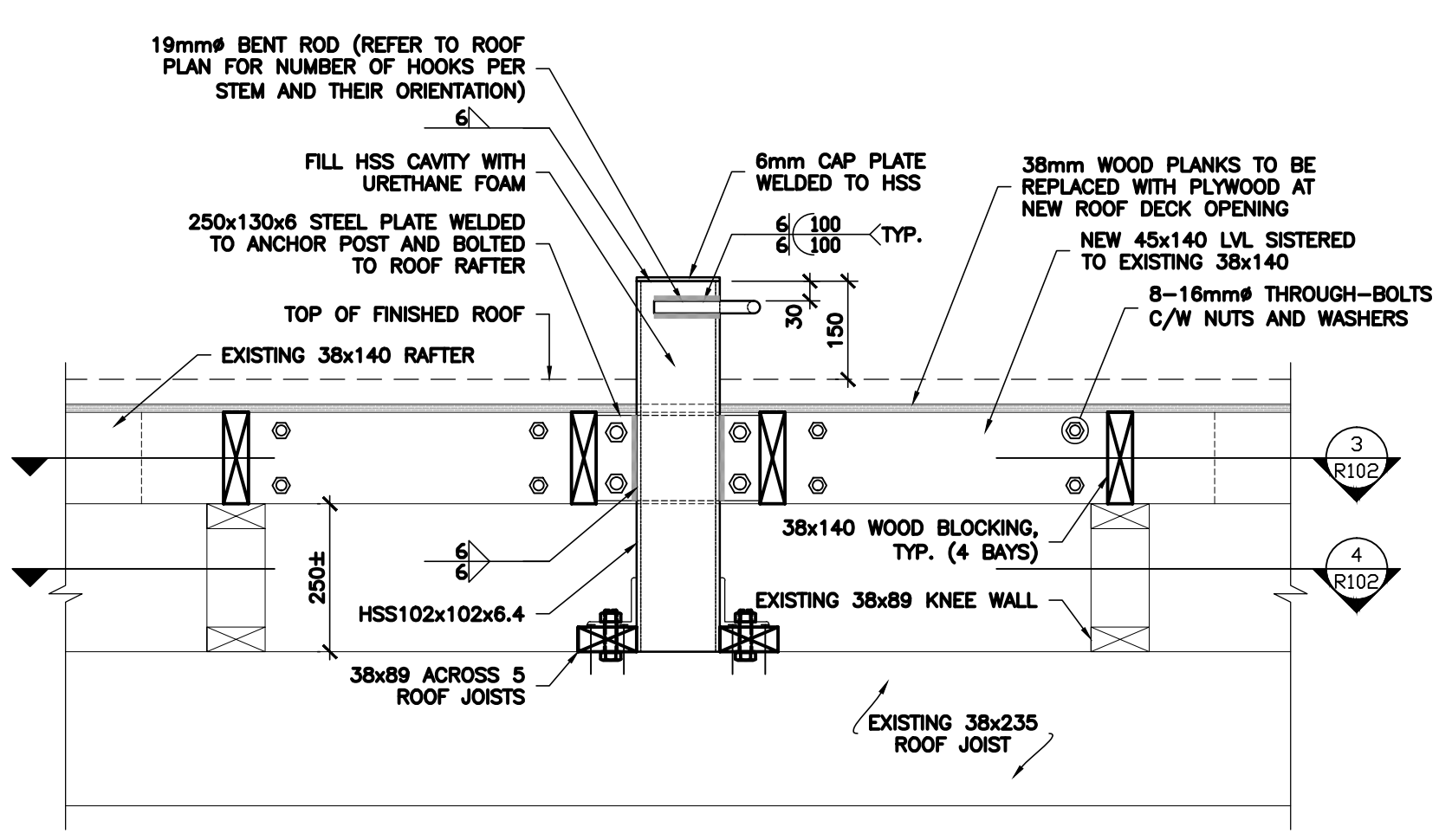
5 DETAIL - ROOF ACCESS HATCH
N.T.S.



6 DETAIL - ROOF ACCESS HATCH
N.T.S.

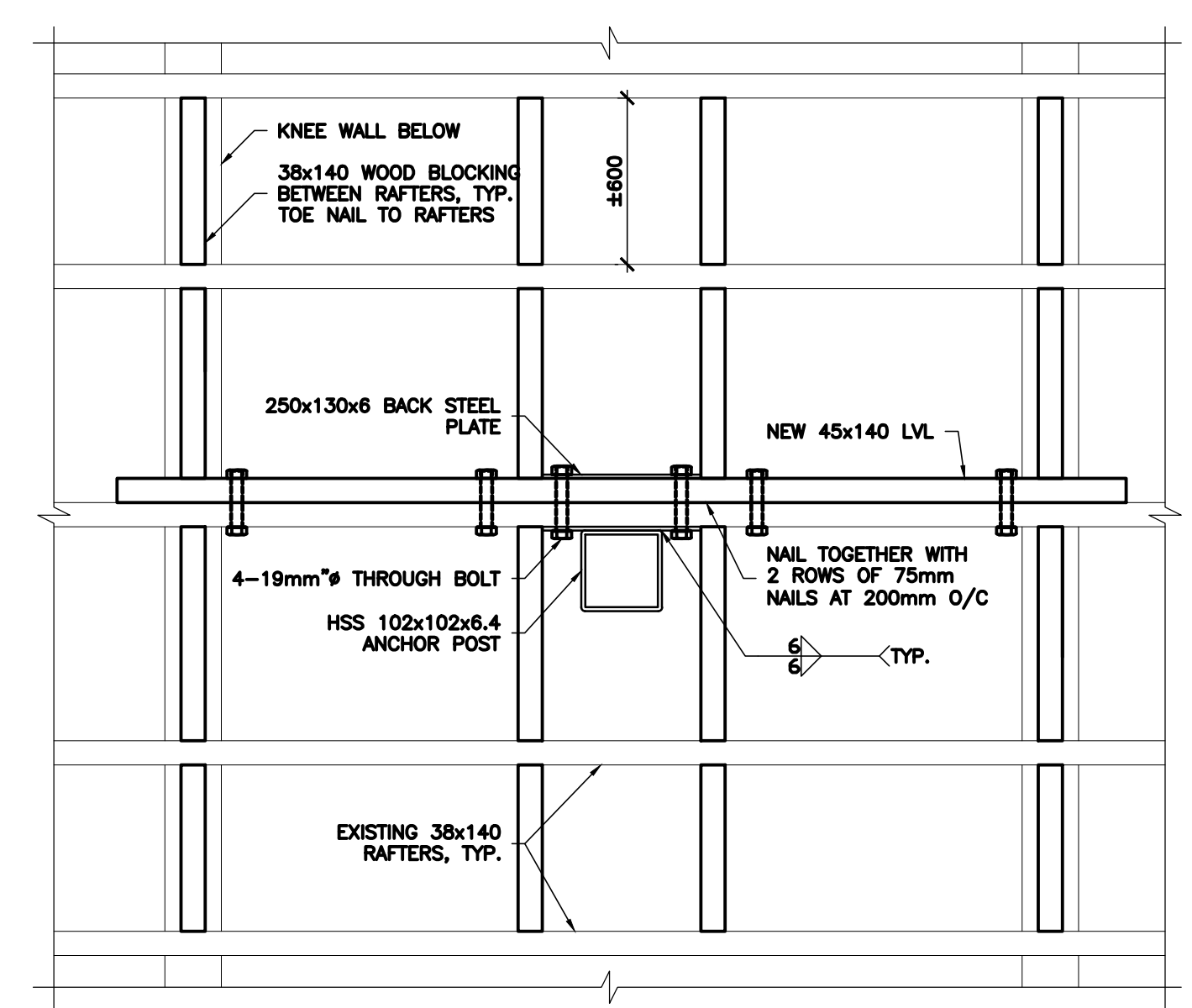


1 ROOF PLAN
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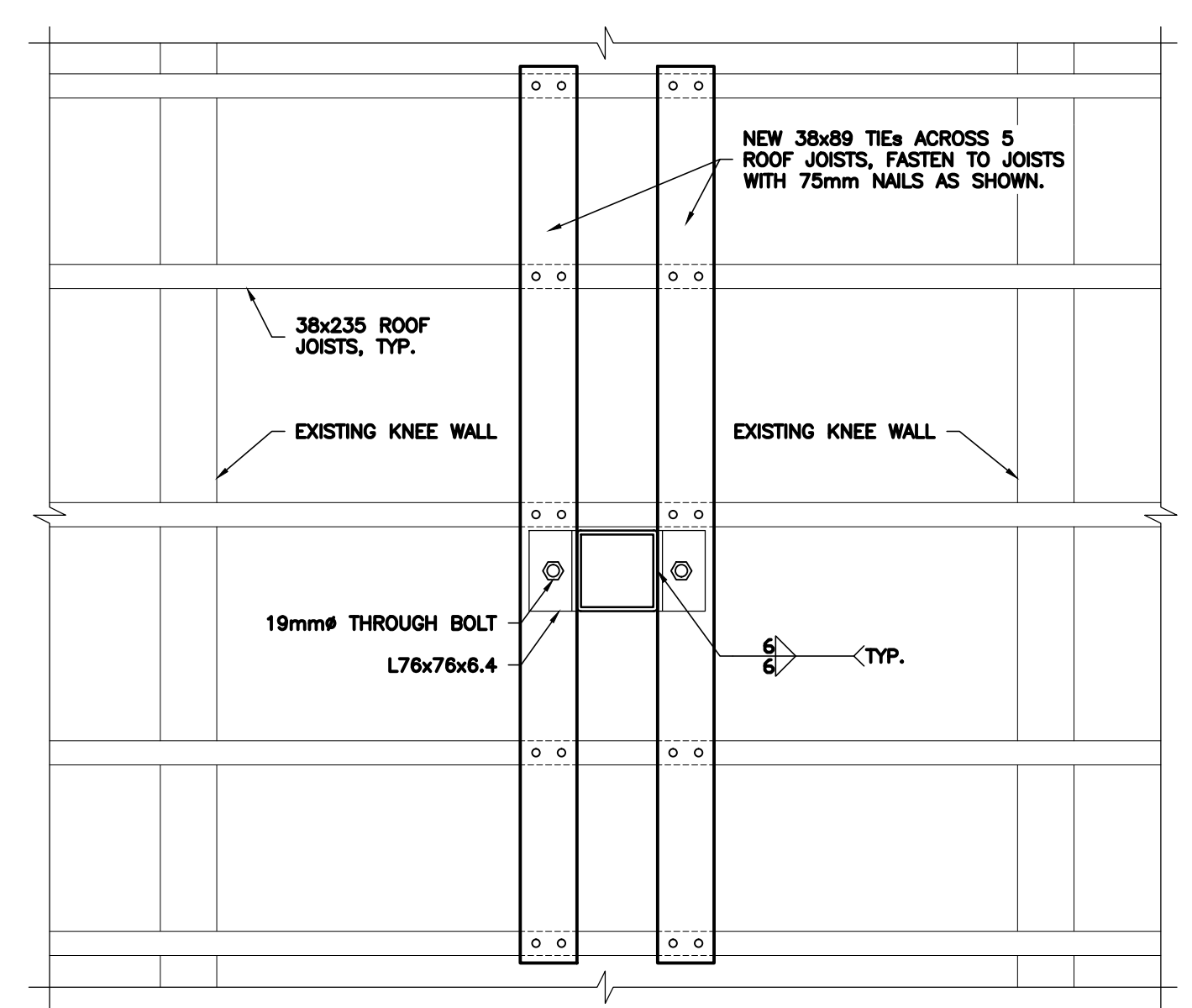


2 ANCHOR DETAIL
1:10

NOTE:
REFER TO R117 FOR
ROOFING DETAILS



3 PLAN VIEW
N.T.S.



4 PLAN VIEW
N.T.S.

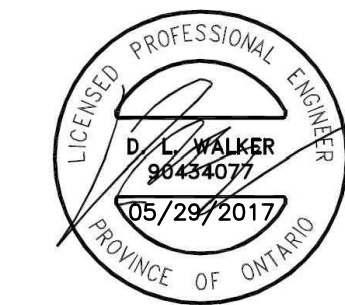
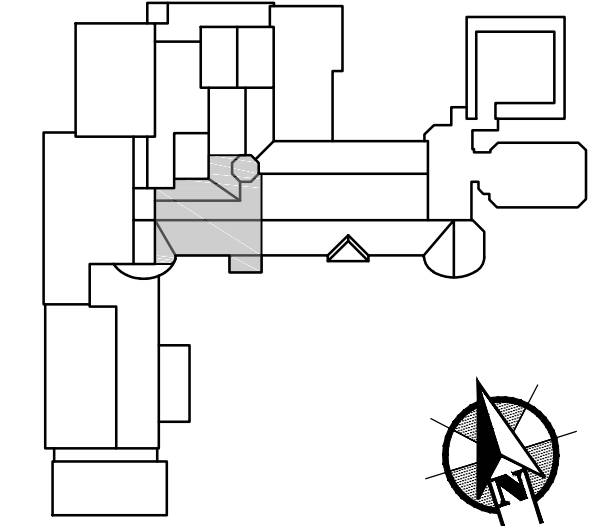
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**NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES**

drawing
dessin

**ROOF AREA 2
PLAN AND DETAILS**

reviewed by vérifié par	D. WALKER
designed by conçu par	H. RIVERA
drawn by dessiné par	S. MARCOLINI
date APRIL, 2017	scale échelle AS SHOWN
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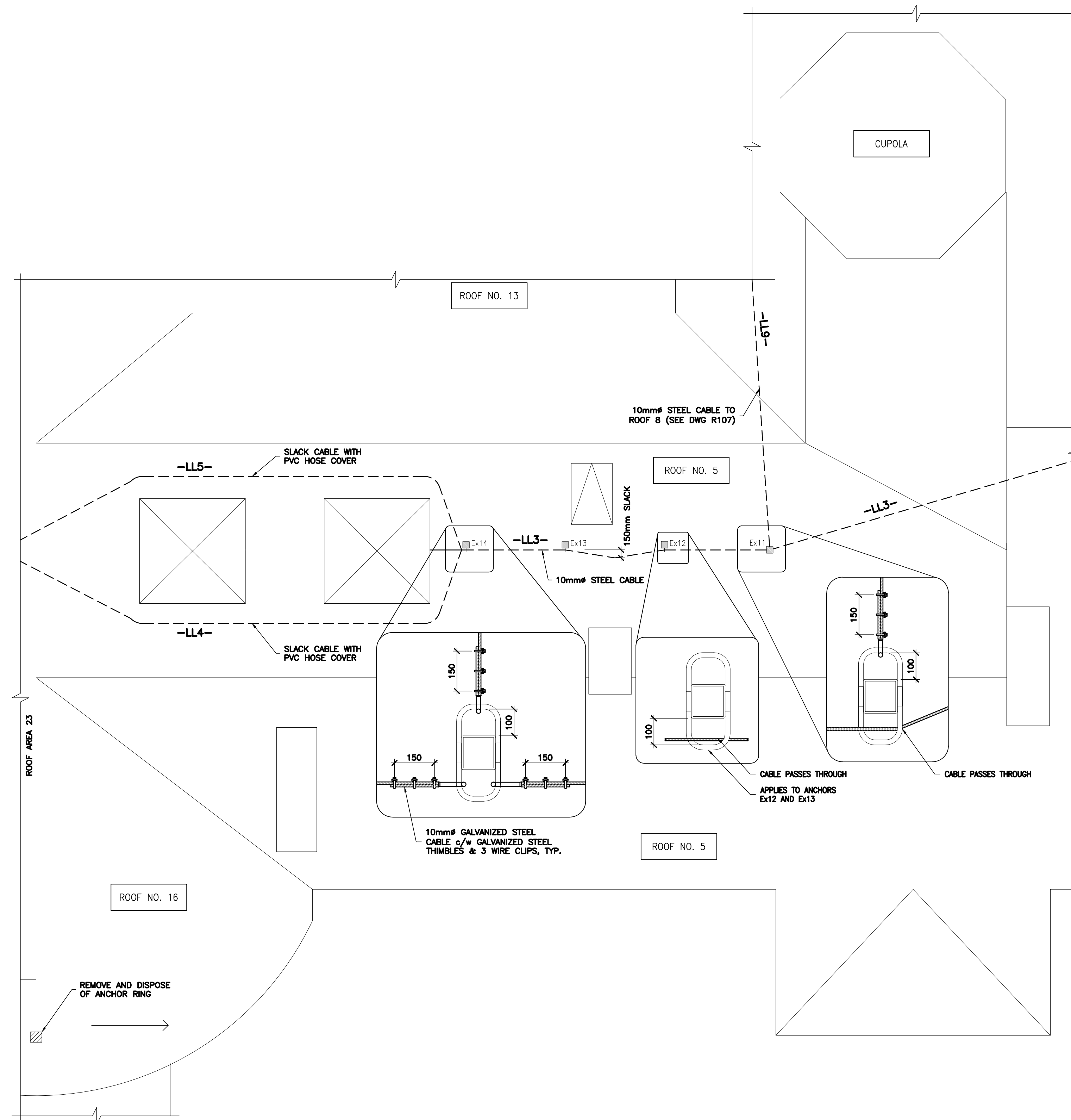
**ROOF AREA 5
PLANS AND DETAILS**

reviewed by vérifié par	D. WALKER
designed by conçu par	H. RIVERA
drawn by dessiné par	S. MARCOLINI
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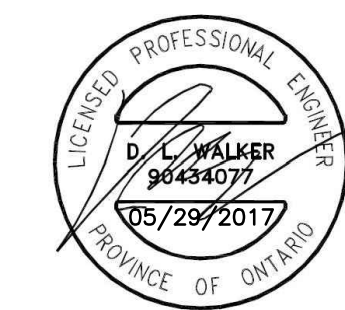
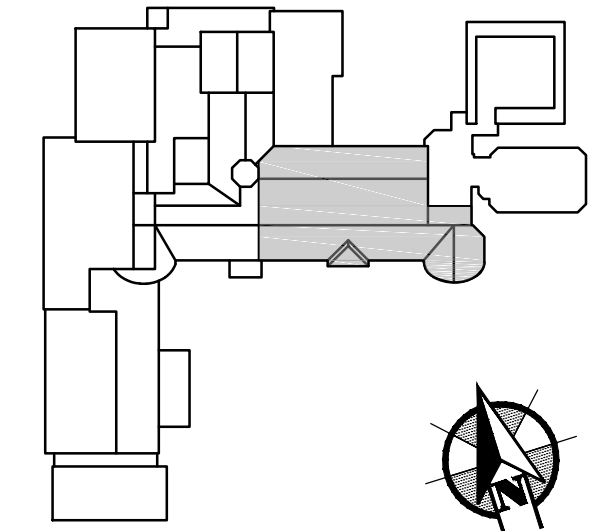
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sheet no.
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R103



1 ROOF PLAN
R103 N.T.S.



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**ROOF AREA 4 & 9
PLAN AND DETAILS**

reviewed by
vérifié par D. WALKER

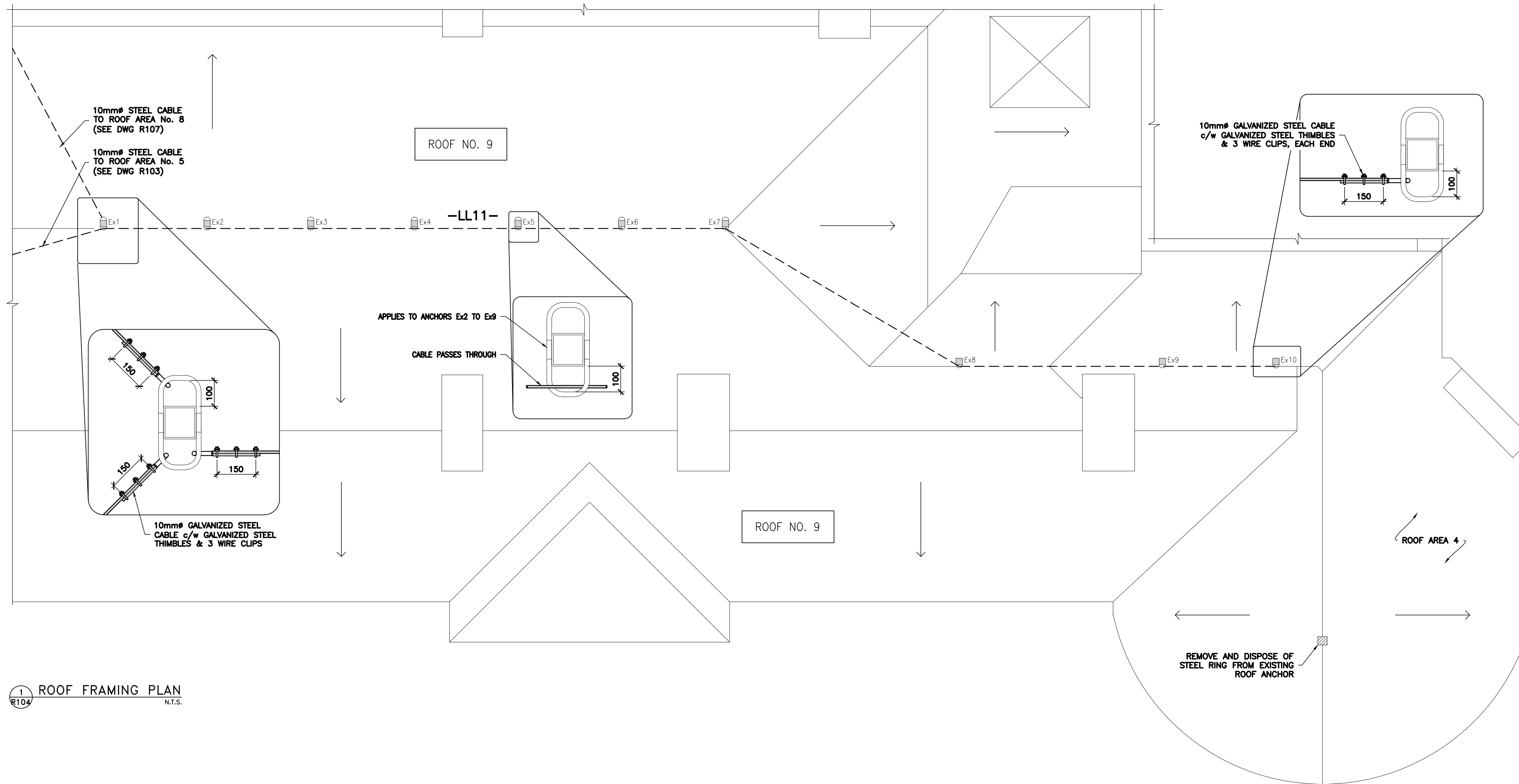
designed by
conçu par H. RIVERA

drawn by
dessiné par S. MARCOLINI

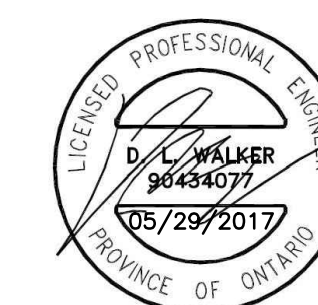
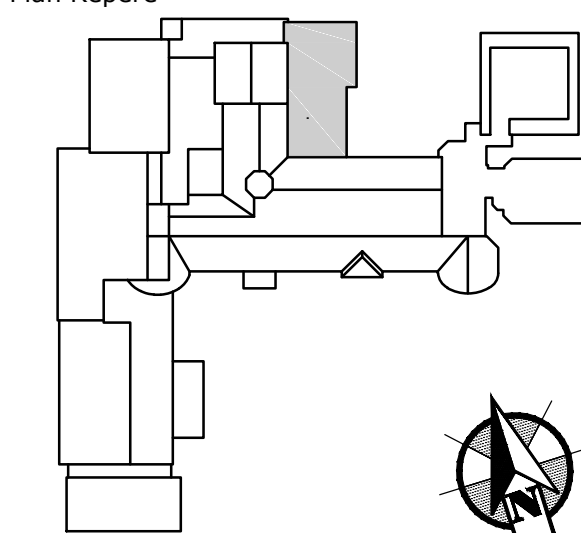
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R104



1 ROOF FRAMING PLAN
R104 N.T.S.



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ROOF AREA 6
PLAN AND DETAILS

reviewed by
vérifié par D. WALKER

designed by
conçu par H. RIVERA

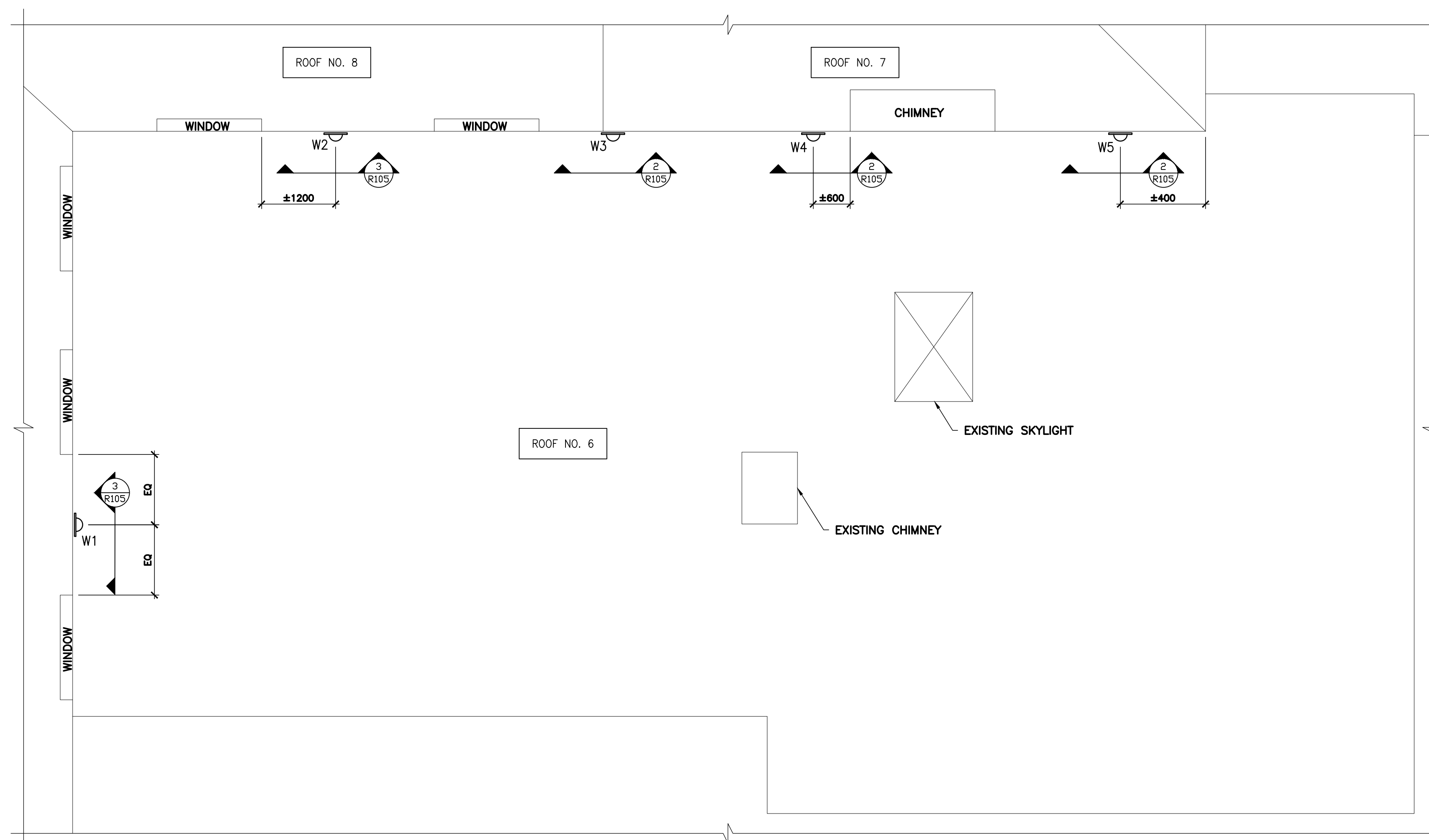
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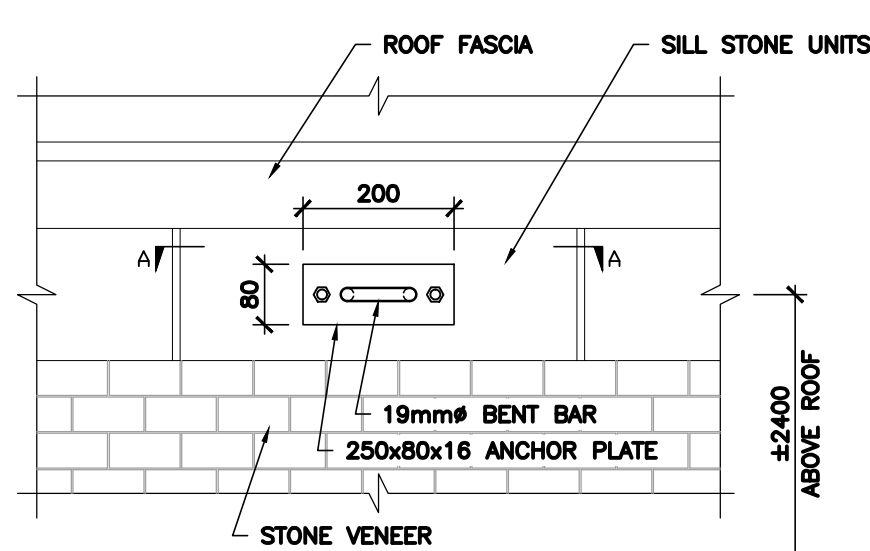
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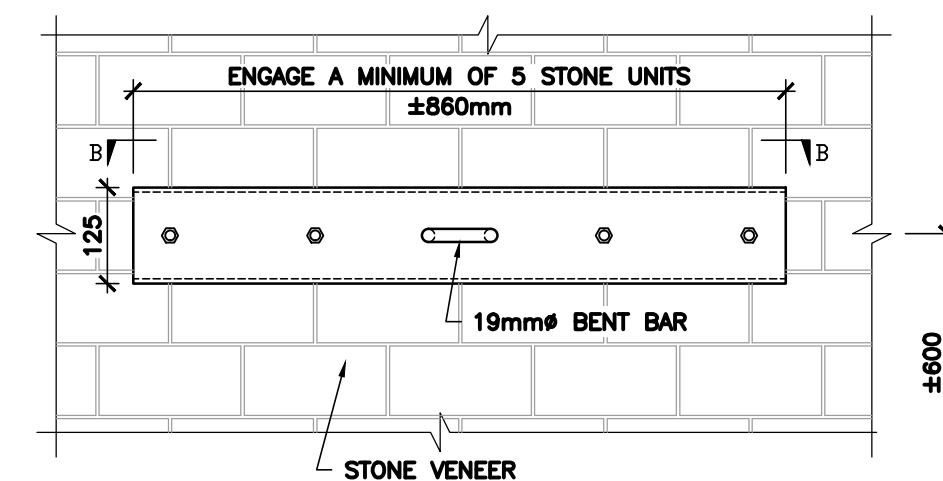
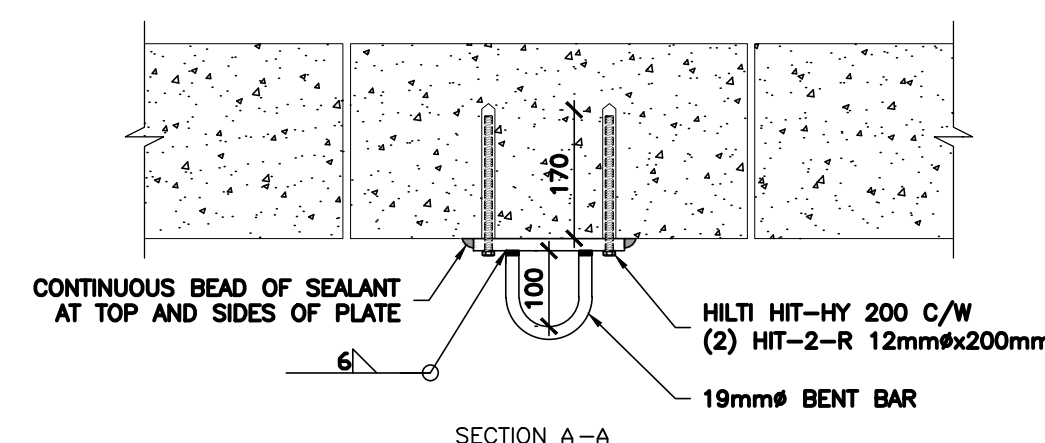
R105



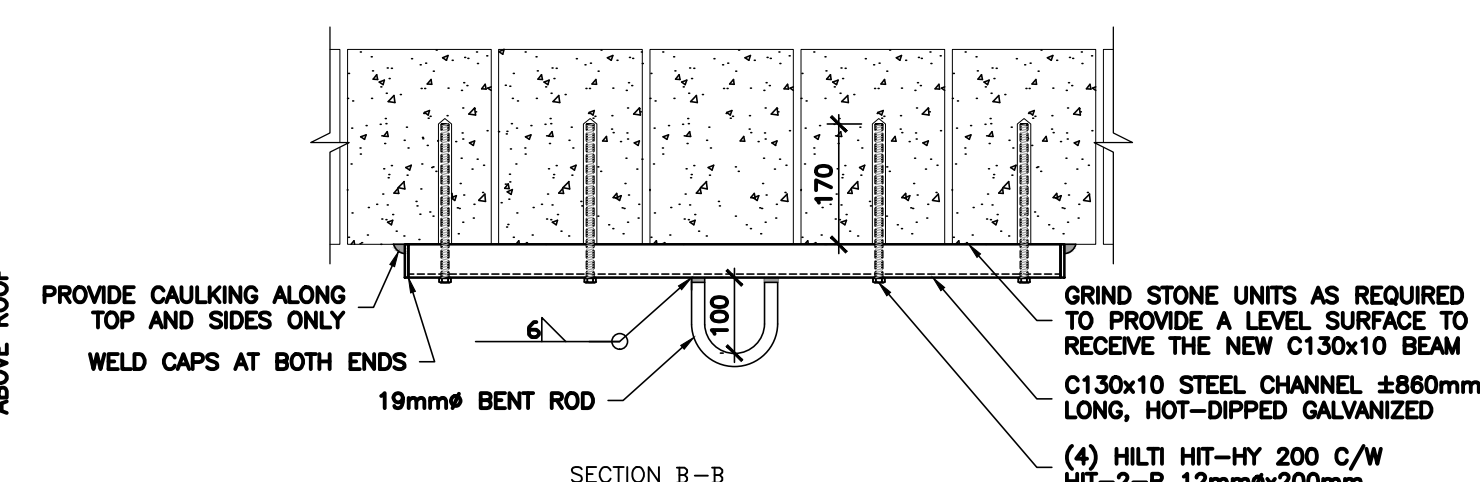
1 ROOF FRAMING PLAN
R105 N.T.S.

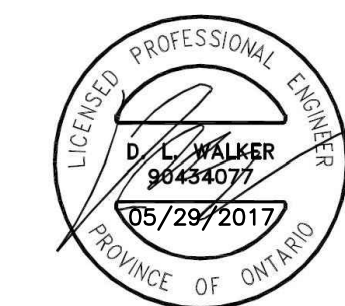
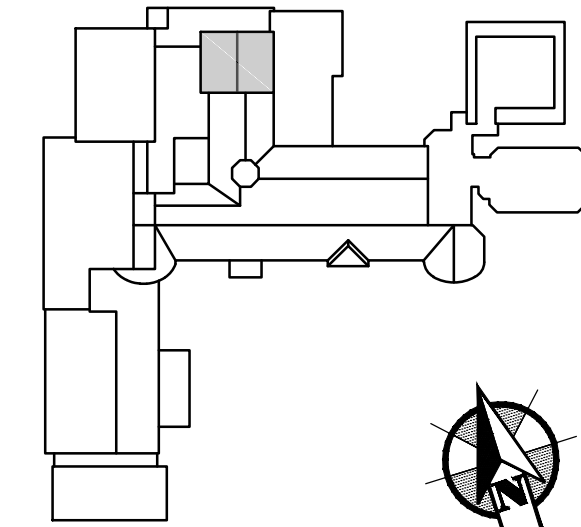


2 WALL ANCHOR DETAIL
R105 N.T.S.



3 WALL ANCHOR DETAIL
R105 N.T.S.





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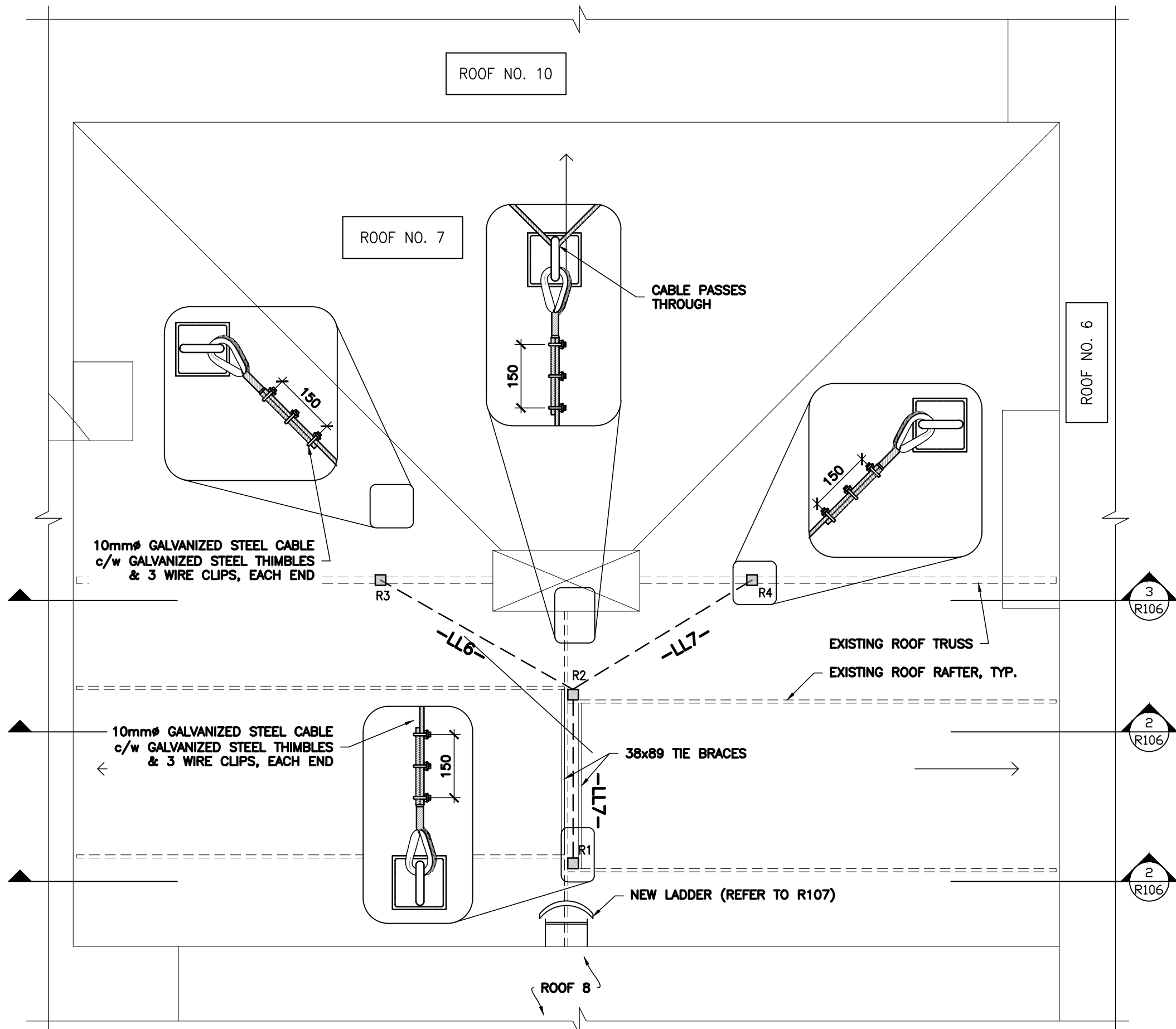
**ROOF AREA 7
PLAN AND DETAILS**

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designed by conçu par	H. RIVERA
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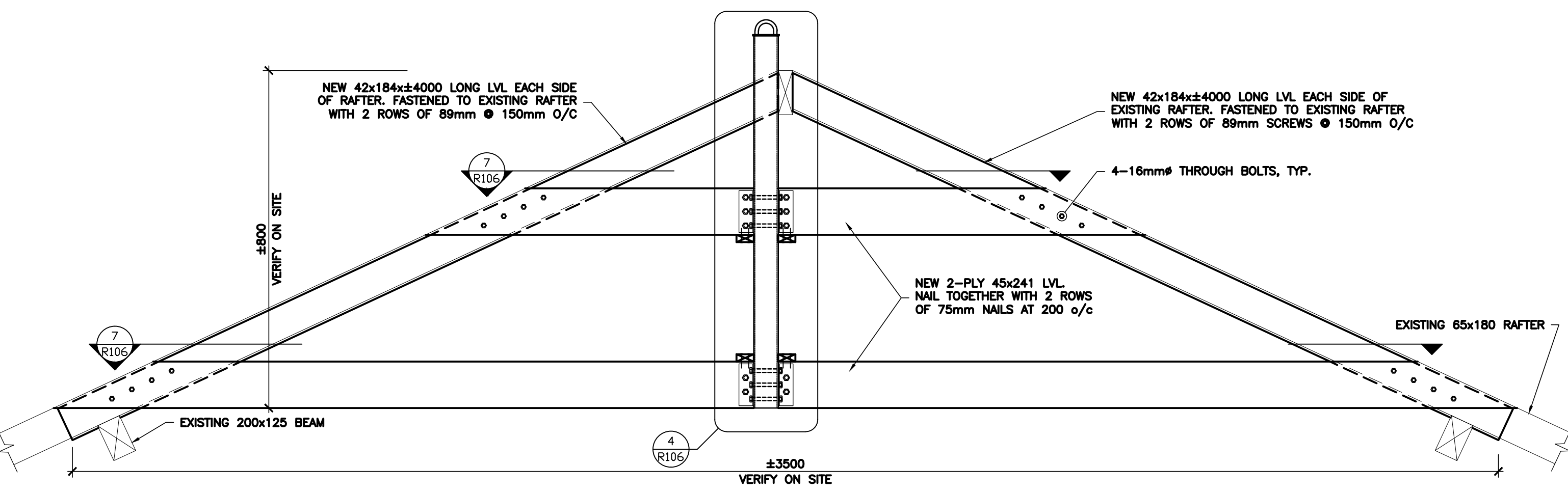
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sheet no.
no. de la feuille

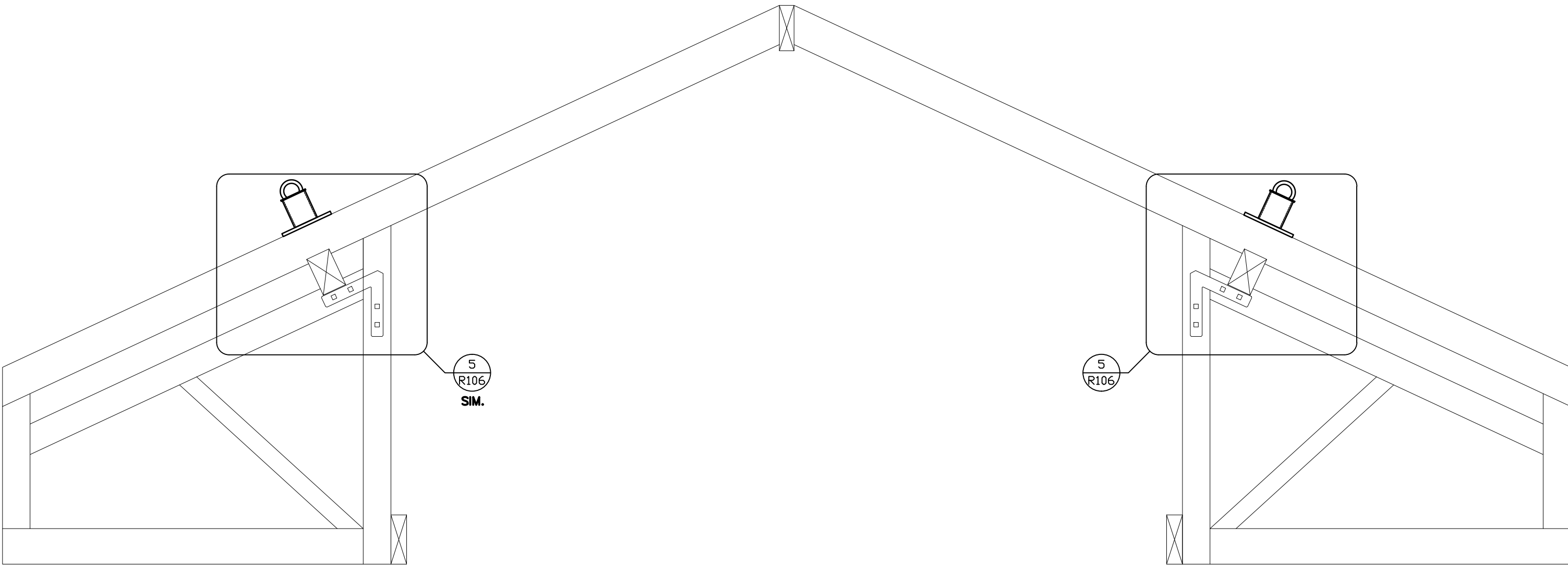
R106



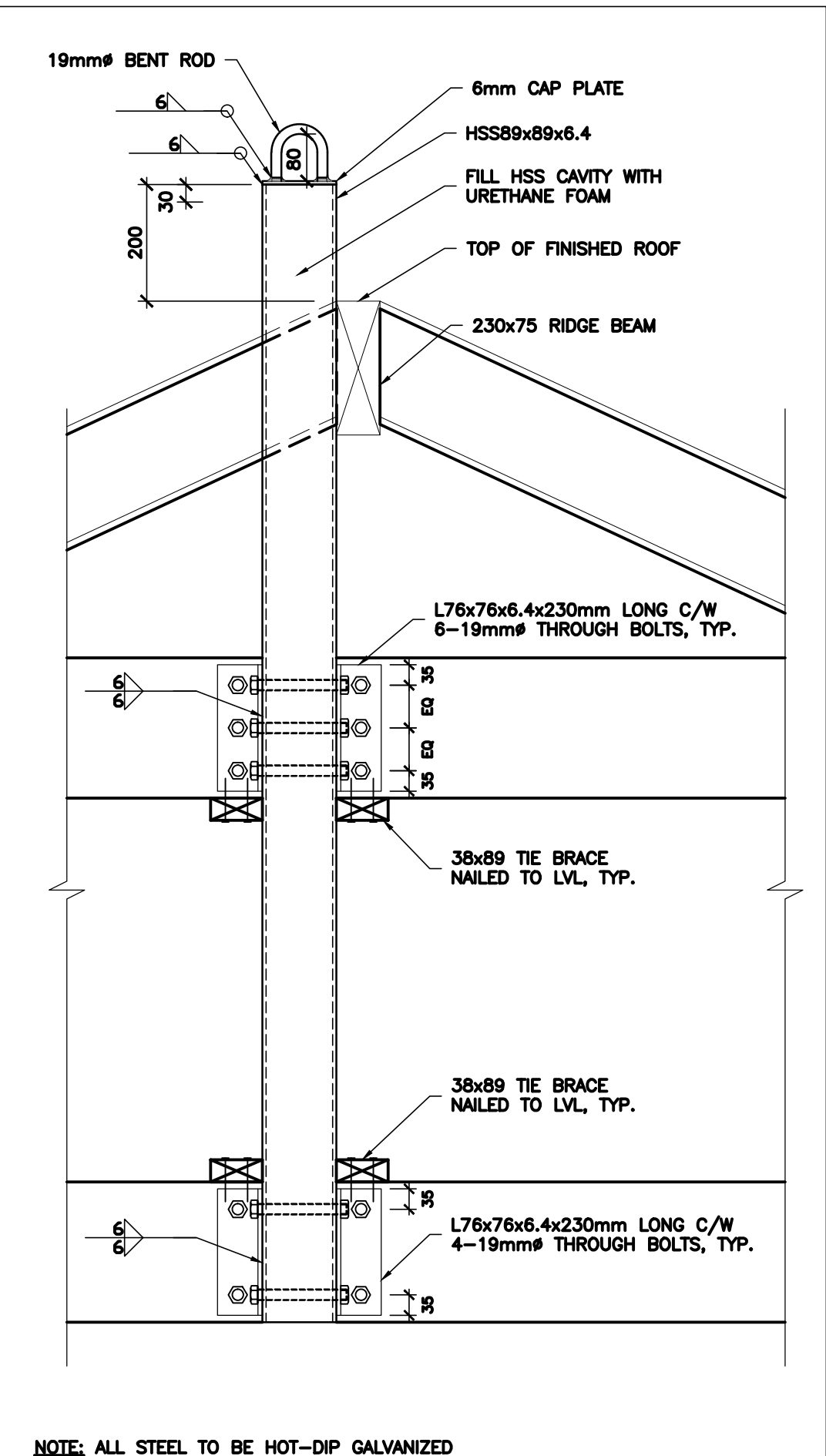
1 ROOF FRAMING PLAN
N.T.S.



2 SECTION - ROOF ANCHOR AT TRUSS
N.T.S.

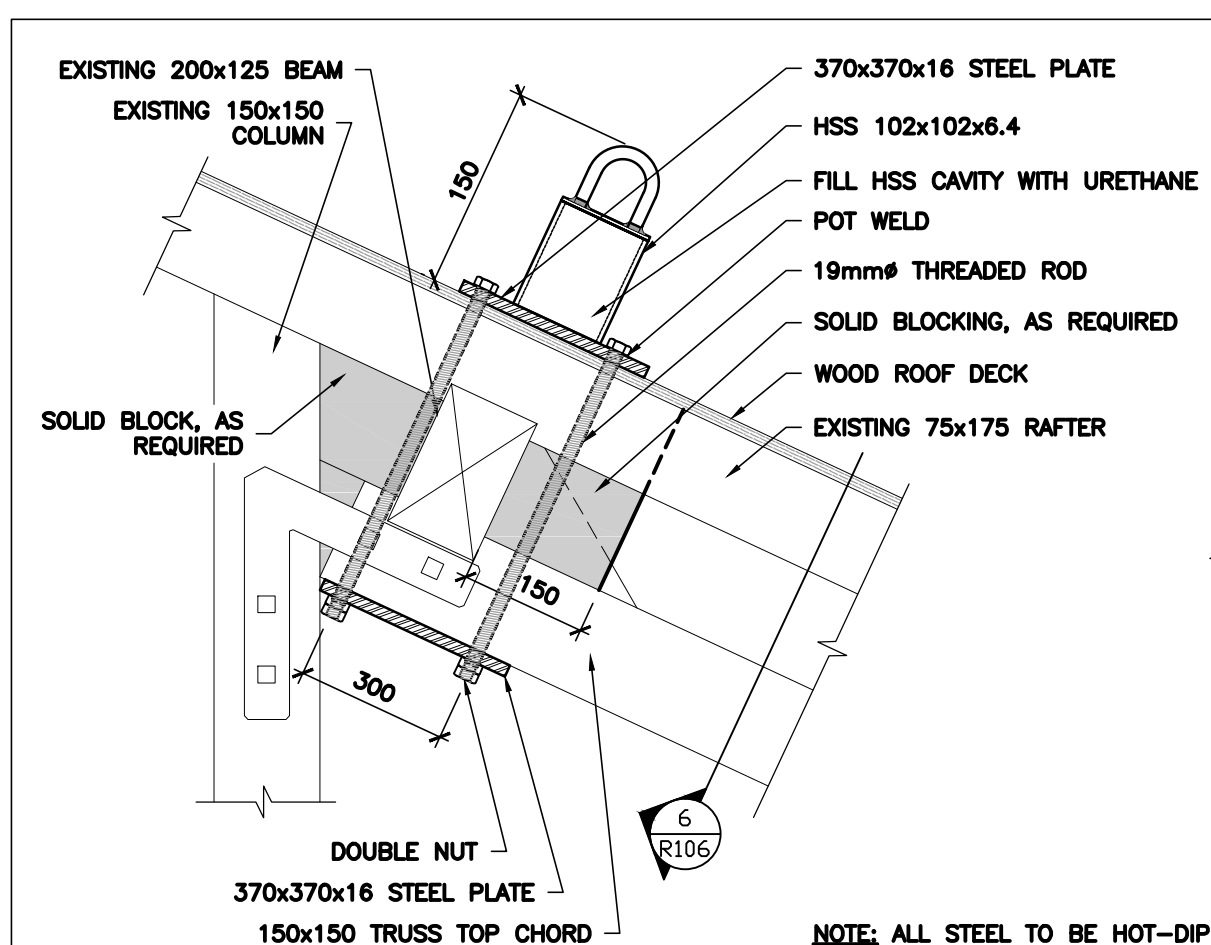


3 SECTION - ROOF ANCHOR AT TRUSS
N.T.S.

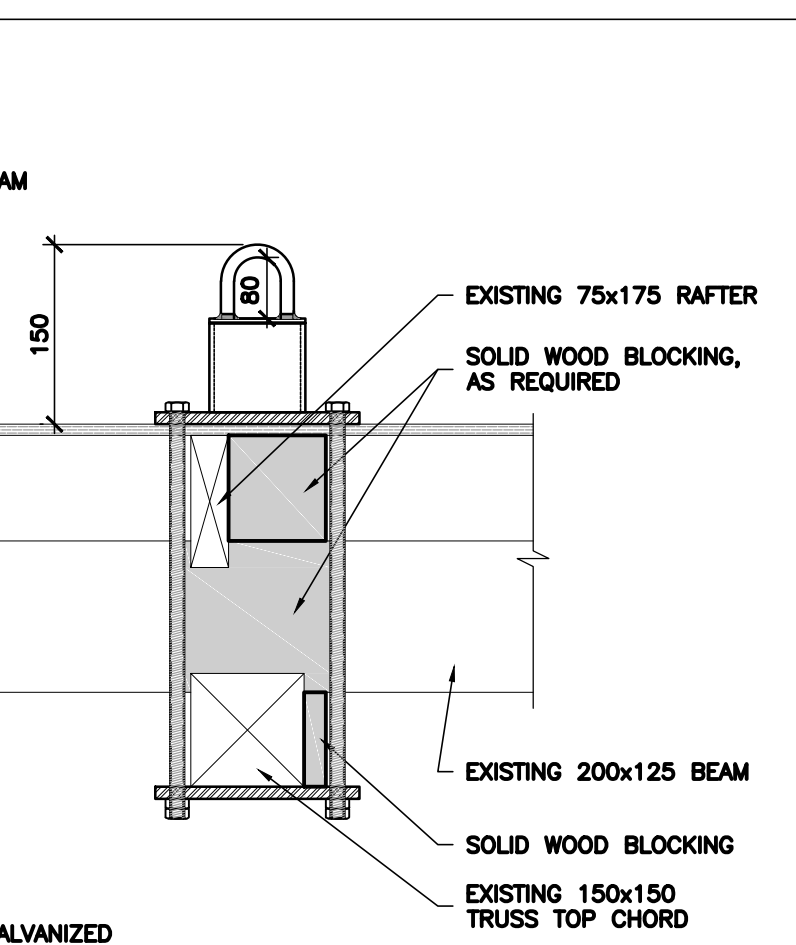


4 ANCHOR DETAIL
N.T.S.

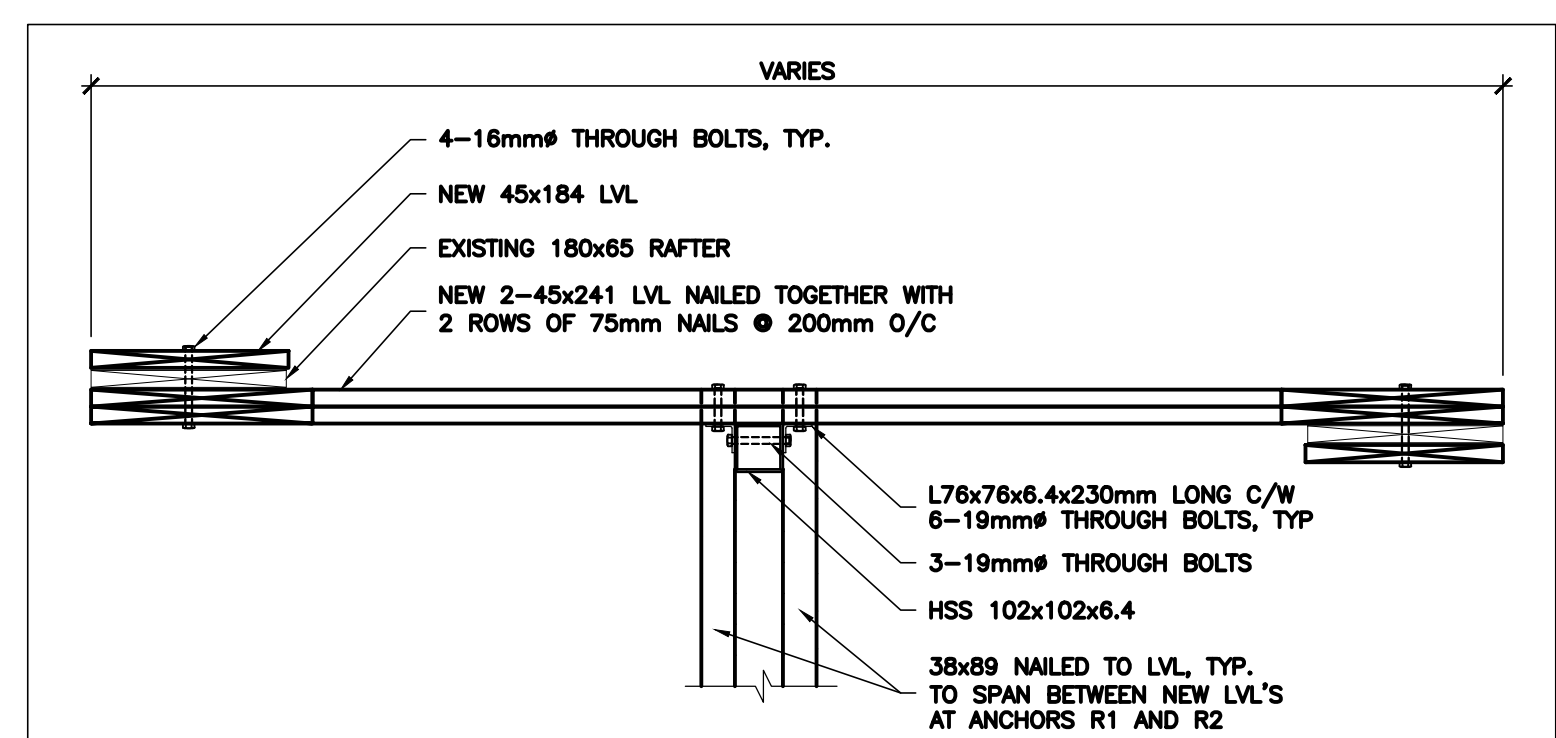
NOTE:
REFER TO R117 FOR
ROOFING DETAILS



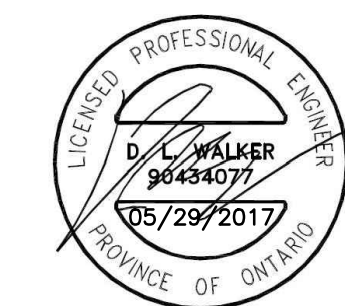
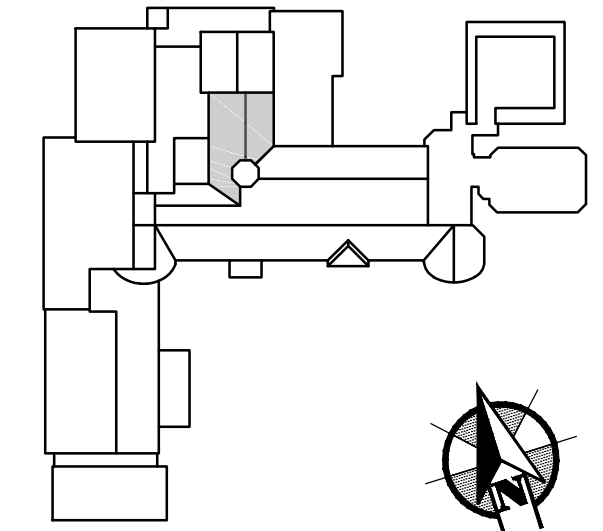
5 ANCHOR DETAIL
N.T.S.



6 ANCHOR DETAIL
N.T.S.



7 LVL DETAIL
N.T.S.



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no.	description
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no.	description
date	date

project
projet

OTTAWA, ONTARIO
NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES

drawing
dessin

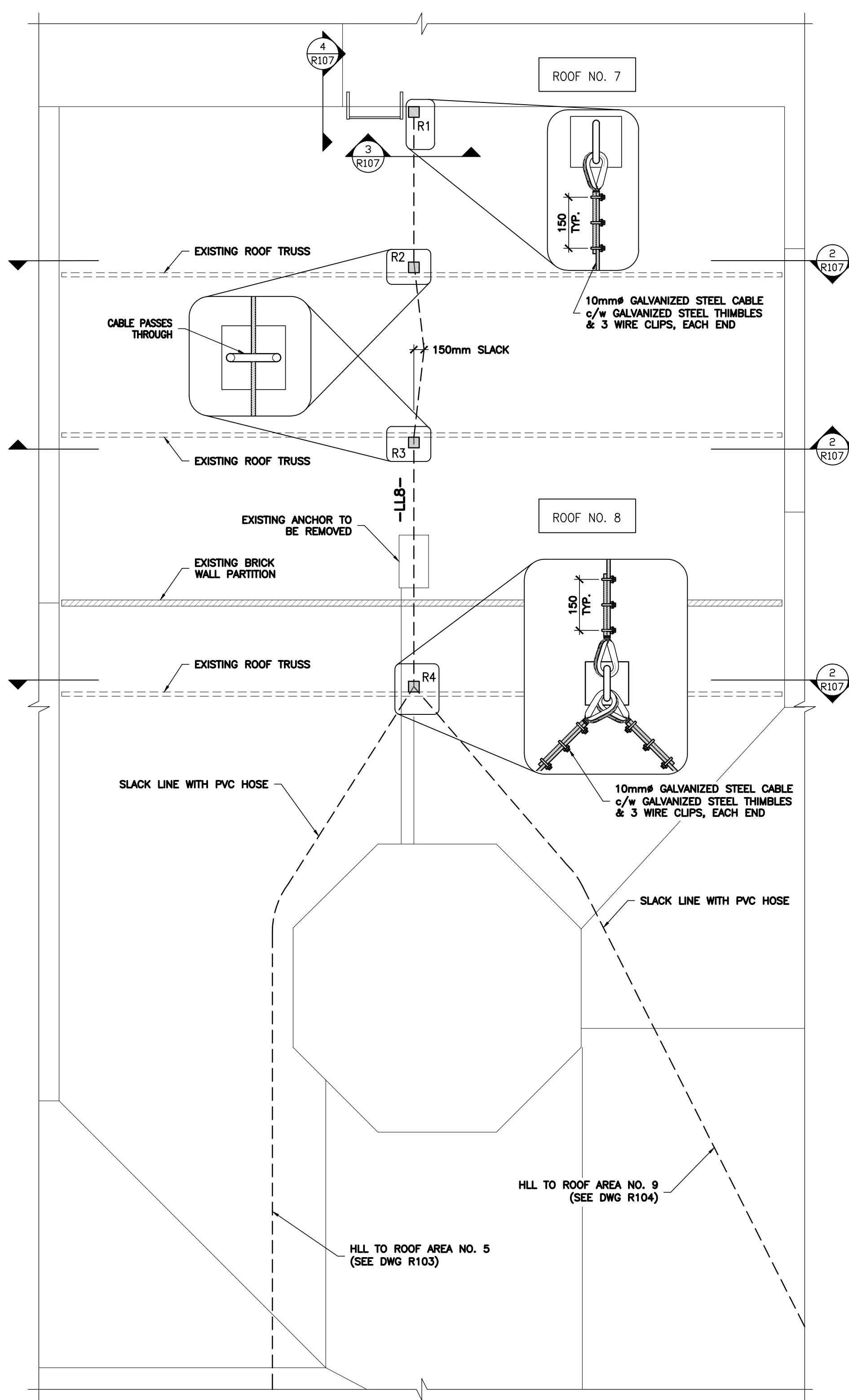
ROOF AREA 8
PLANS AND DETAILS

reviewed by / vérifié par: D. WALKER
designed by / conçu par: H. RIVERA
drawn by / dessiné par: S. MARCOLINI

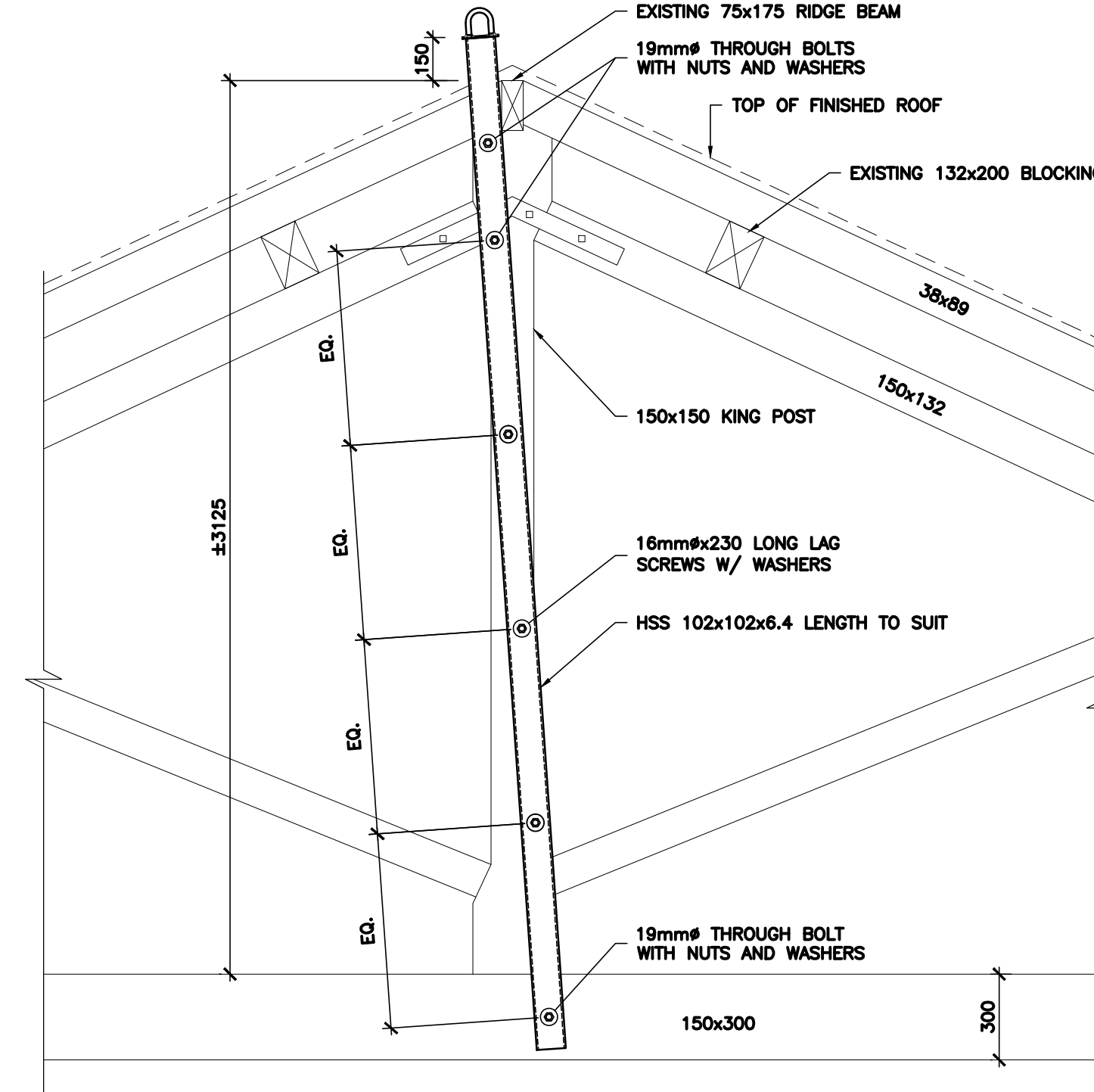
date / date: APRIL 2017
scale / échelle: AS SHOWN

NCC project no. / sheet no.
no. du projet de la CCN / no. de la feuille

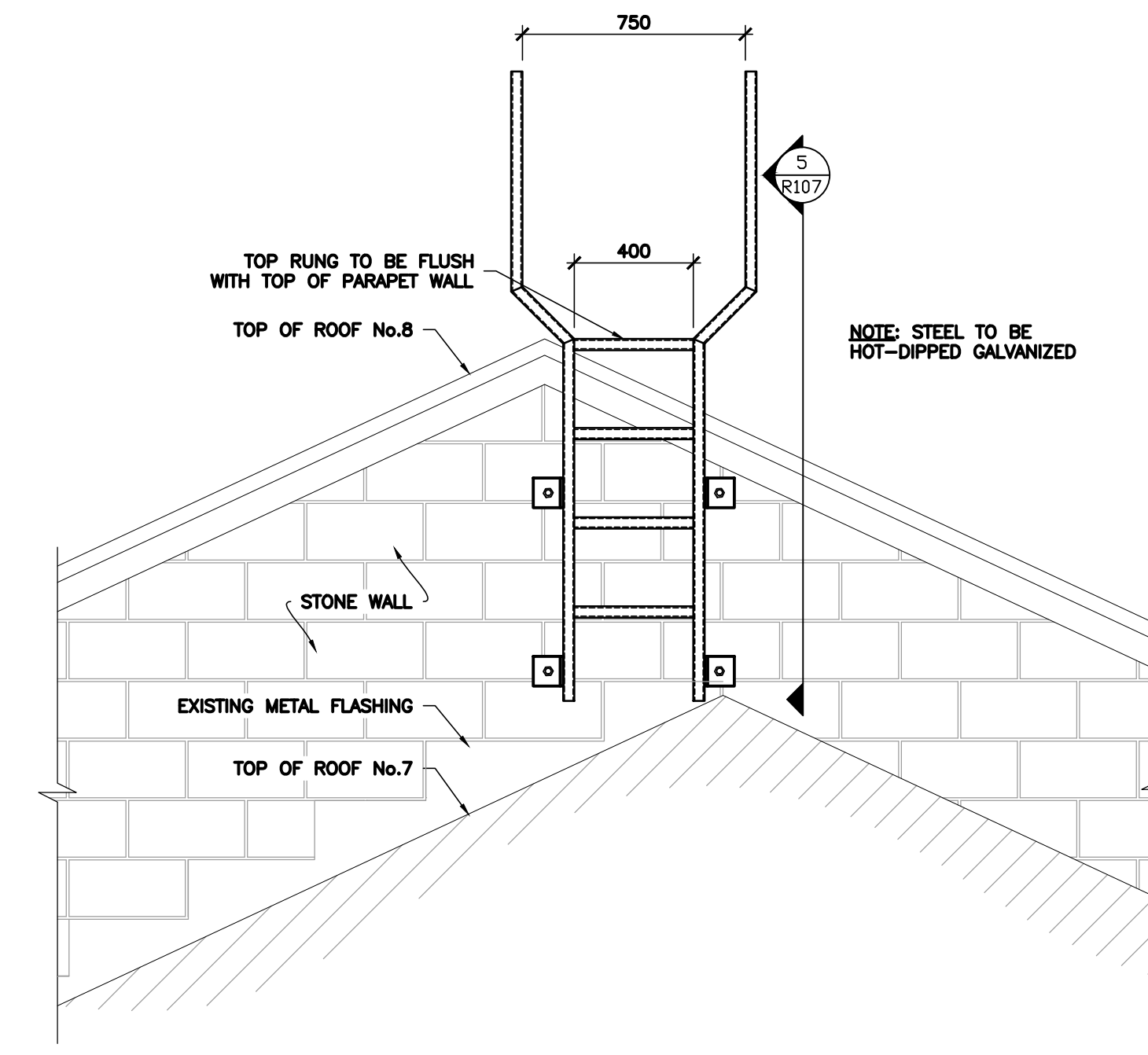
R107



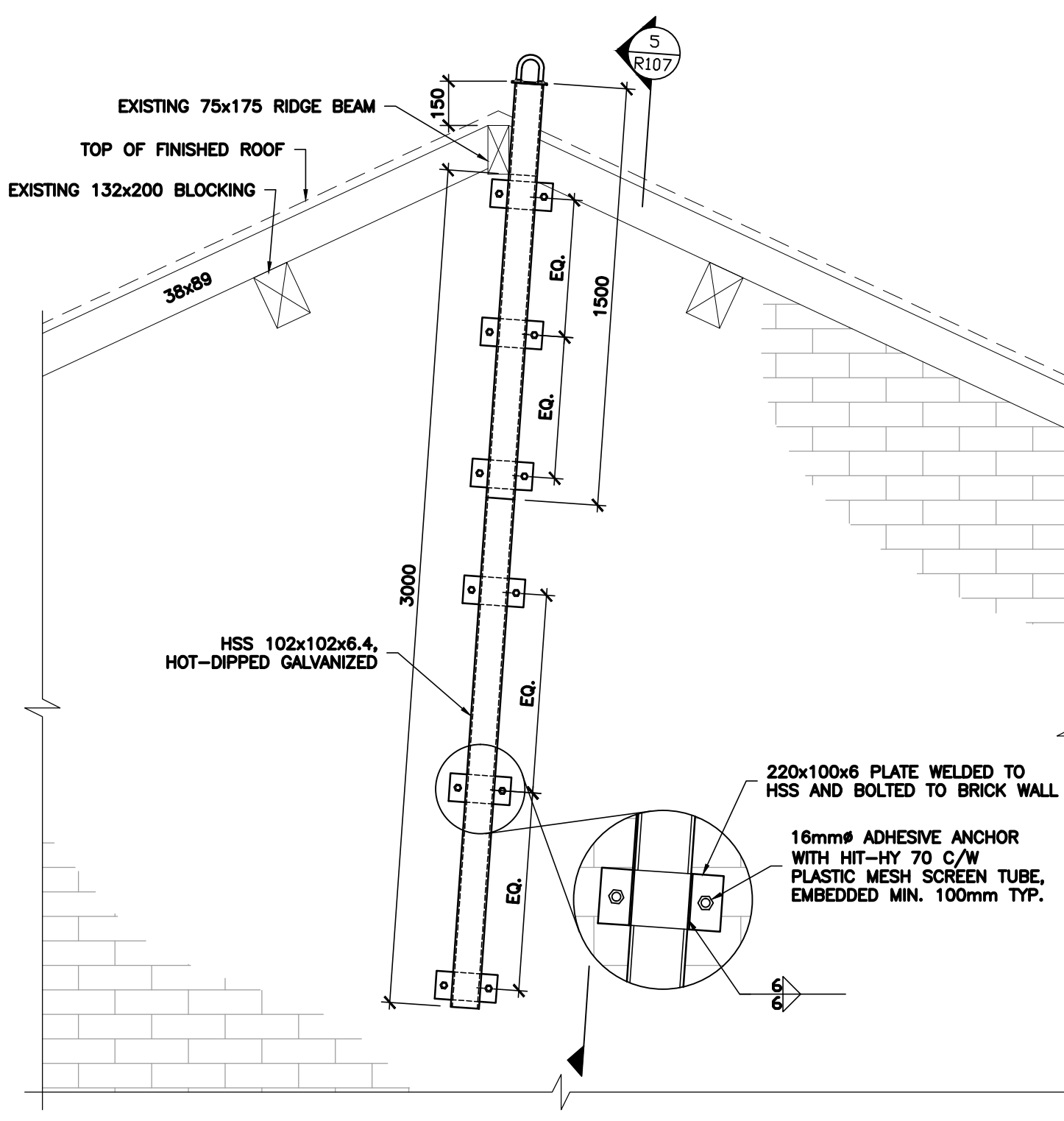
1 R107 ROOF FRAMING PLAN
N.T.S.



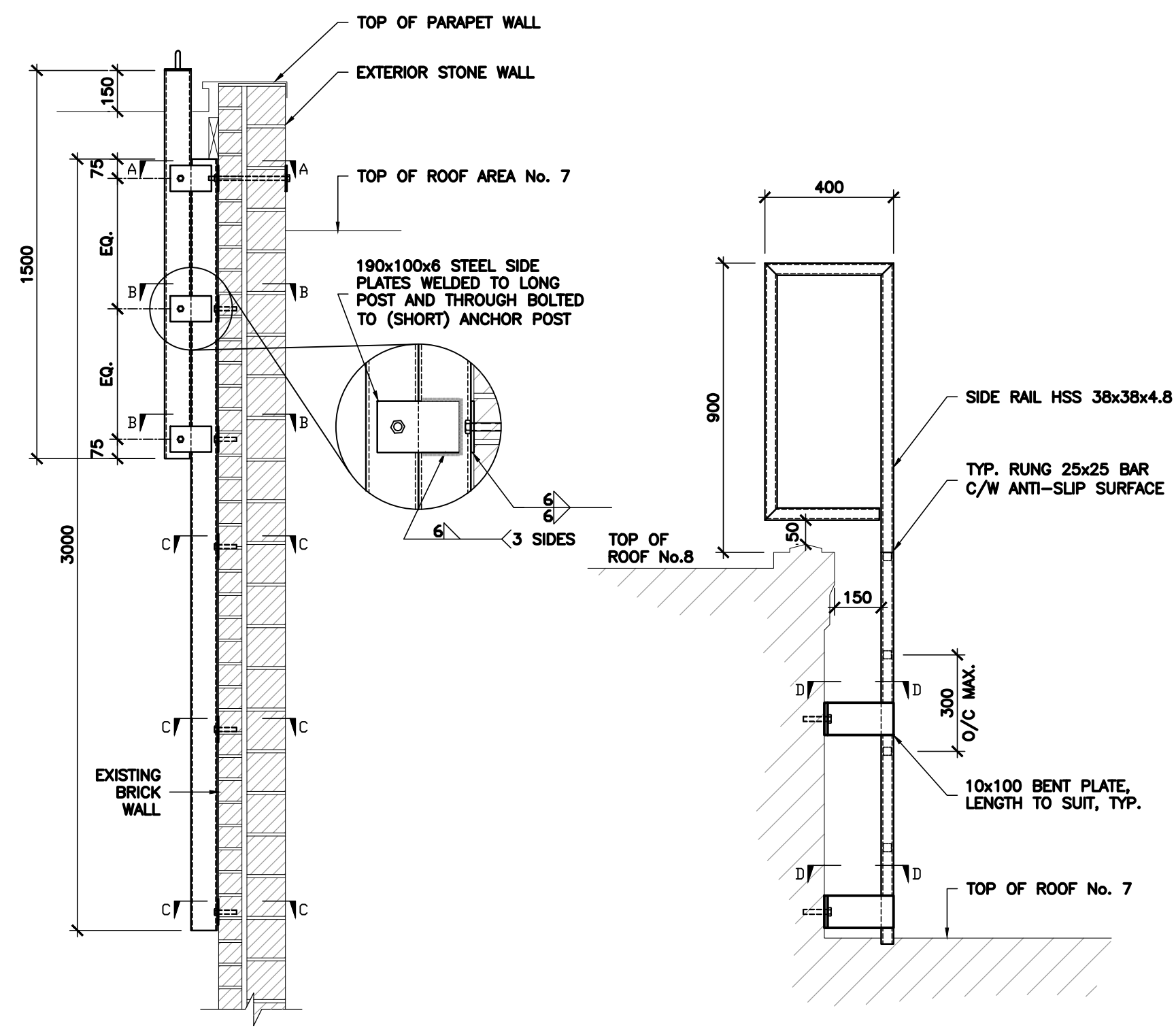
2 R107 ROOF ANCHOR DETAIL
N.T.S.



4 R107 ROOF LADDER DETAIL
N.T.S.



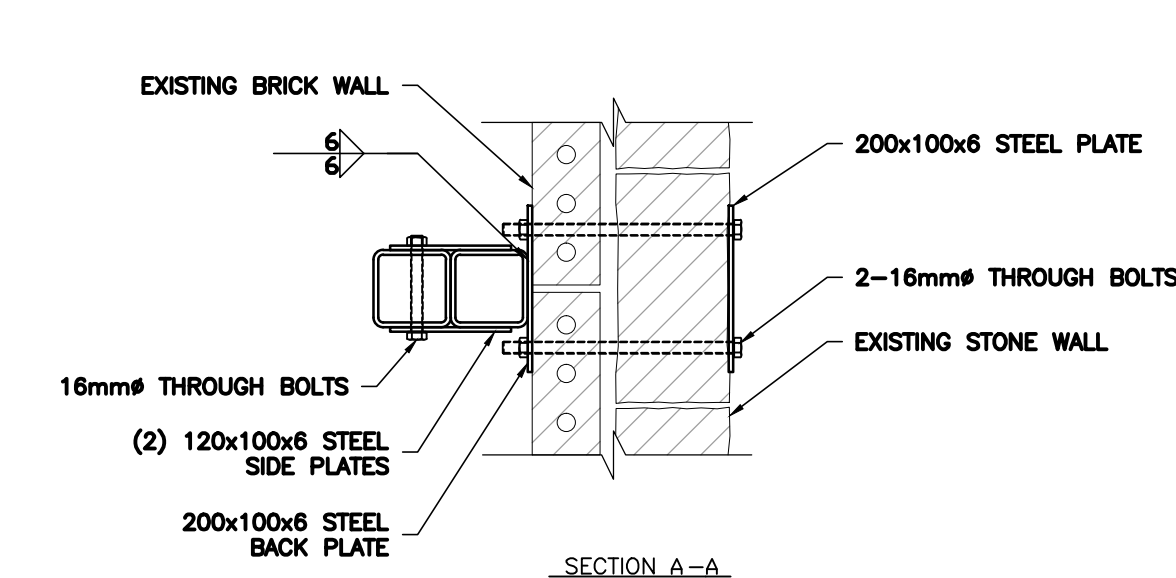
3 R107 ROOF ANCHOR DETAIL
N.T.S.



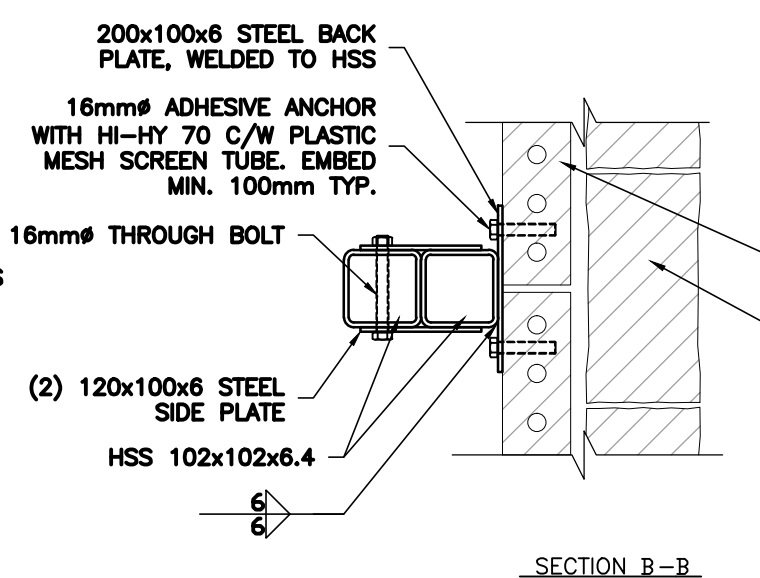
5 R107 ROOF ANCHOR DETAIL
N.T.S.

6 R107 ROOF LADDER DETAIL
N.T.S.

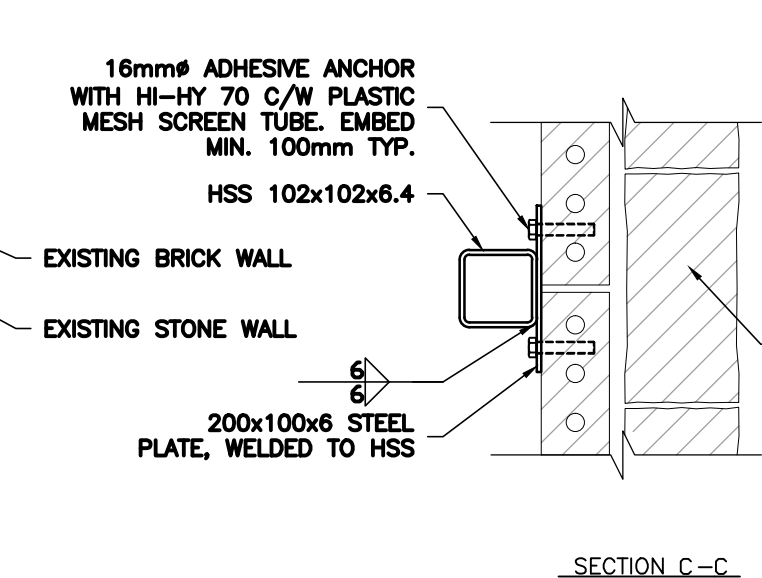
NOTE:
REFER TO R117 FOR
ROOFING DETAILS



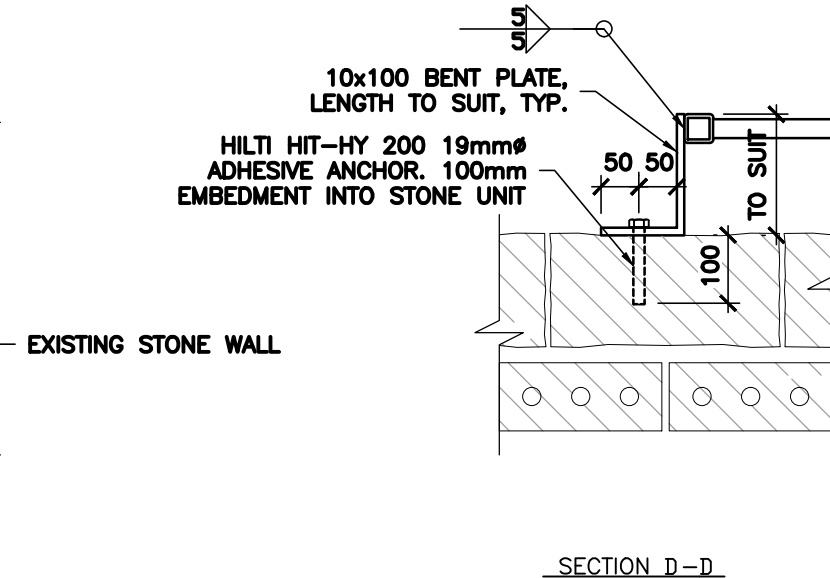
SECTION A-A



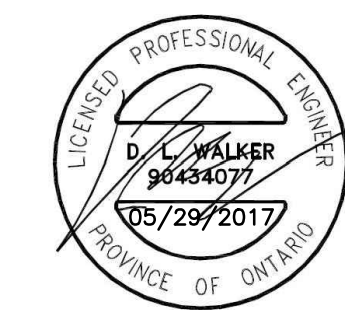
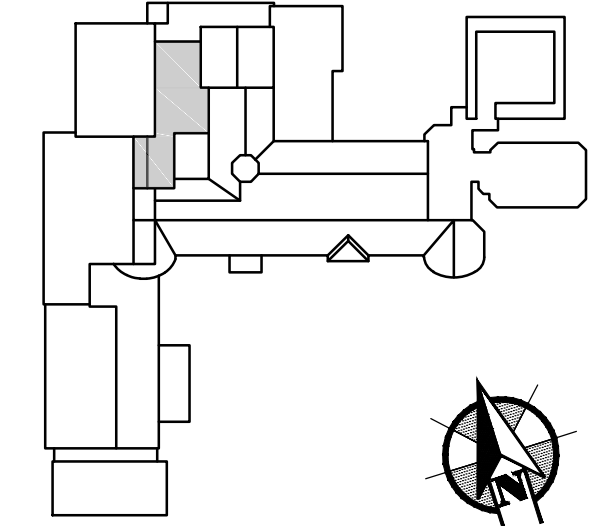
SECTION B-B



SECTION C-C



SECTION D-D



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OTTAWA, ONTARIO
**NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES**

drawing
dessin

**ROOF AREA 12
PLAN AND DETAILS**

reviewed by
vérifié par D. WALKER

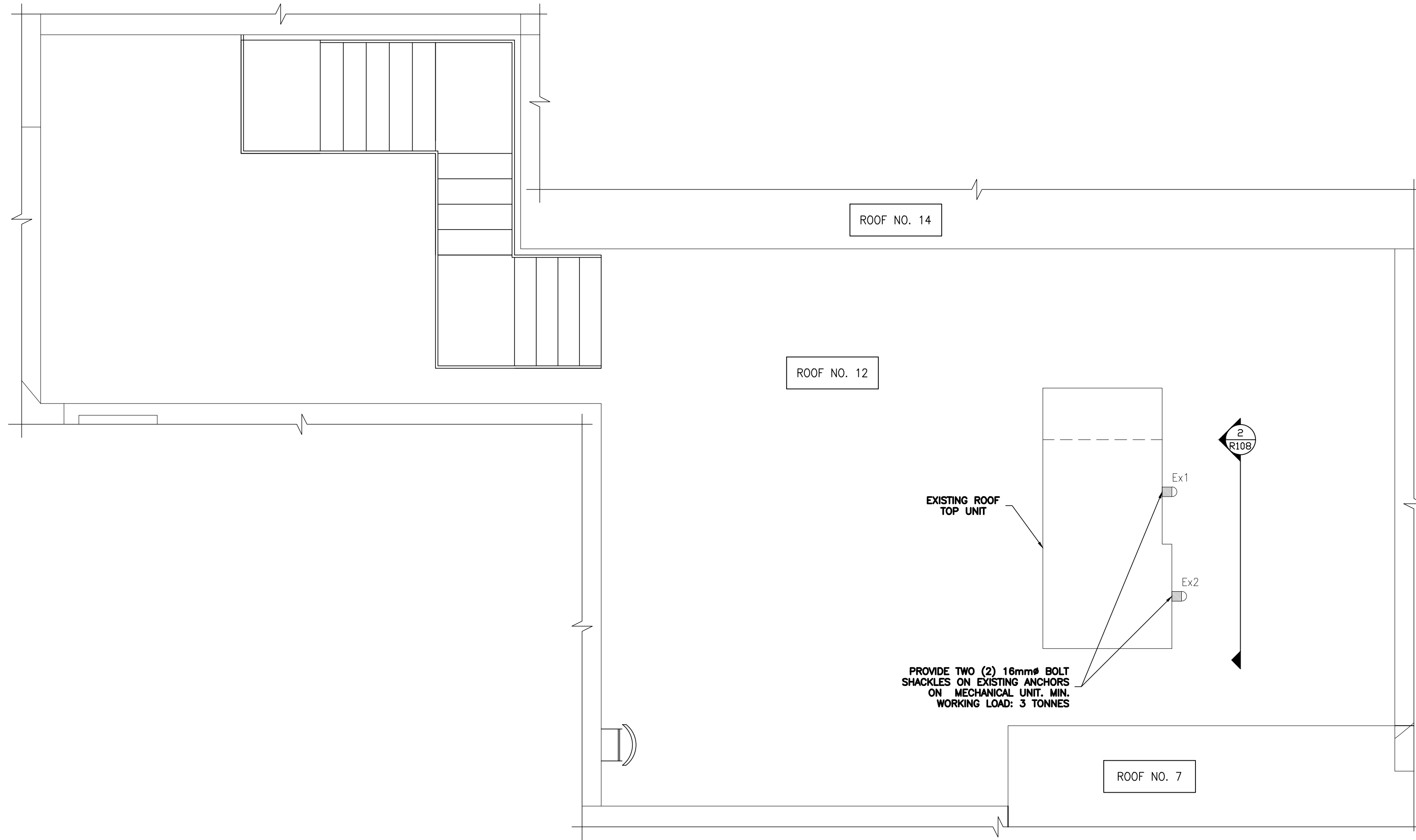
designed by
conçu par H. RIVERA

drawn by
dessiné par S. MARCOLINI

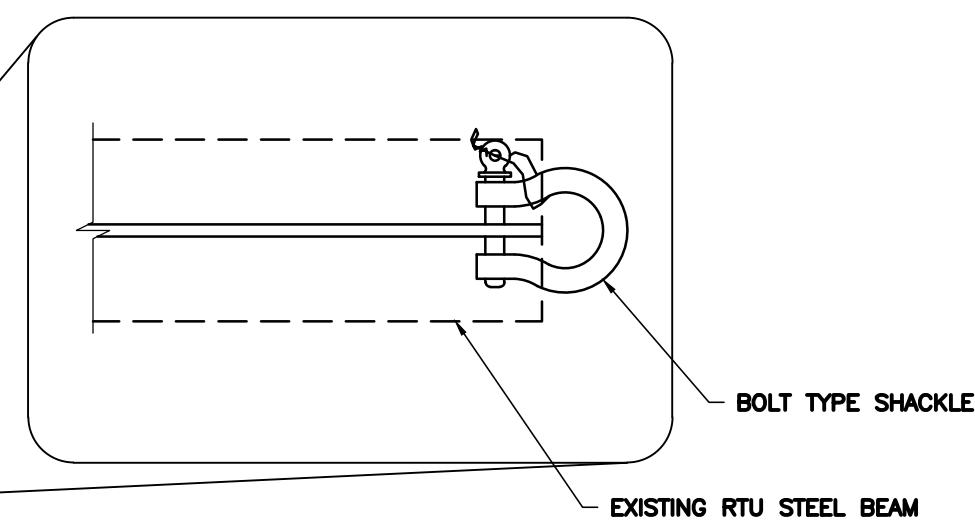
date APRIL, 2017 scale AS SHOWN

NCC project no. sheet no.
no. du projet de la CCN no. de la feuille

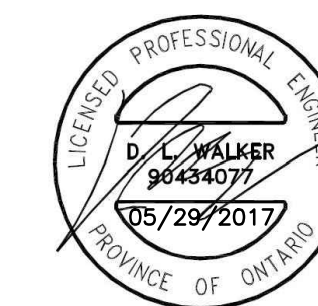
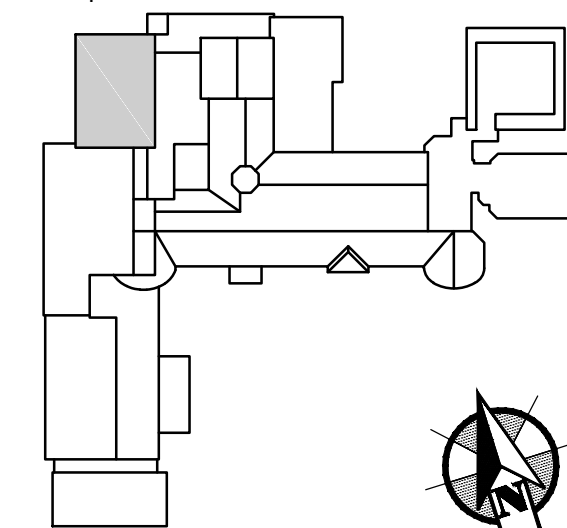
R108



1 ROOF PLAN
N.T.S.



2 ROOF TOP UNIT ANCHORS
N.T.S.



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OTTAWA, ONTARIO
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TRAVEL RESTRAINT
SYSTEM UPGRADES**

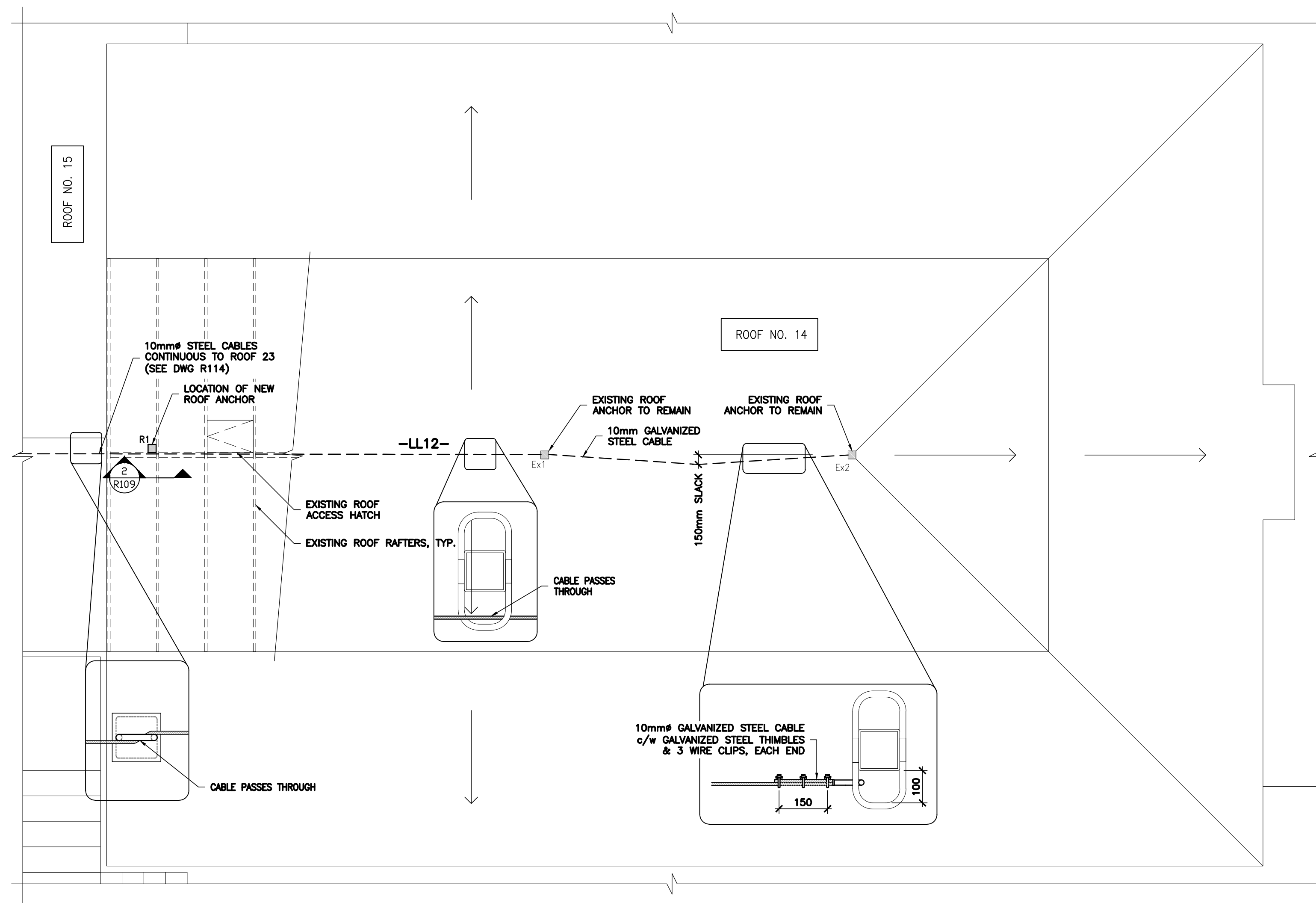
drawing
dessin

**ROOF AREA 14
PLAN AND DETAILS**

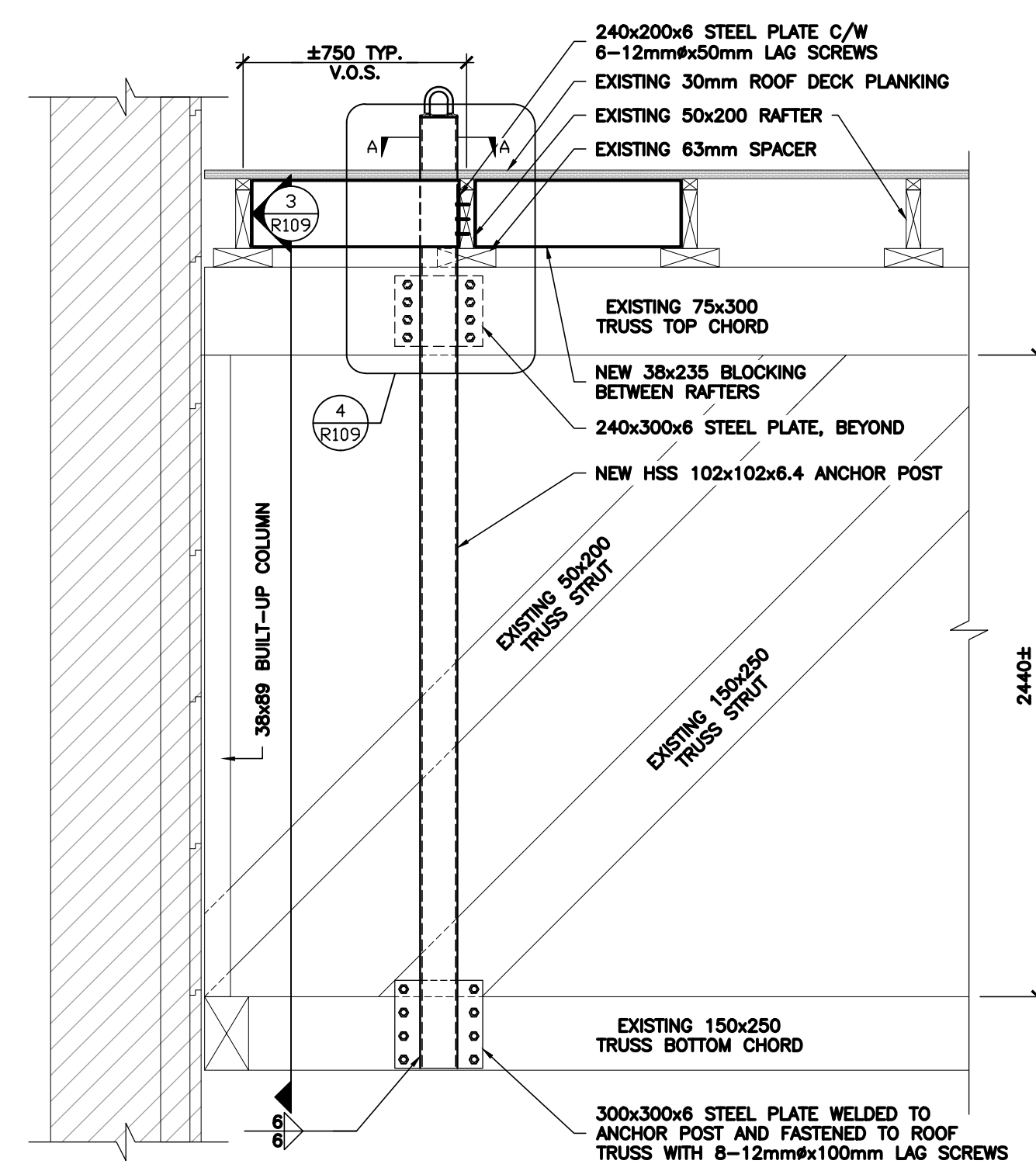
reviewed by vérifié par	D. WALKER
designed by conçu par	H. RIVERA
drawn by dessiné par	S. MARCOLINI
date	APRIL, 2017
scale échelle	AS SHOWN

NCC project no. sheet no.
no. du projet de la CCN no. de la feuille

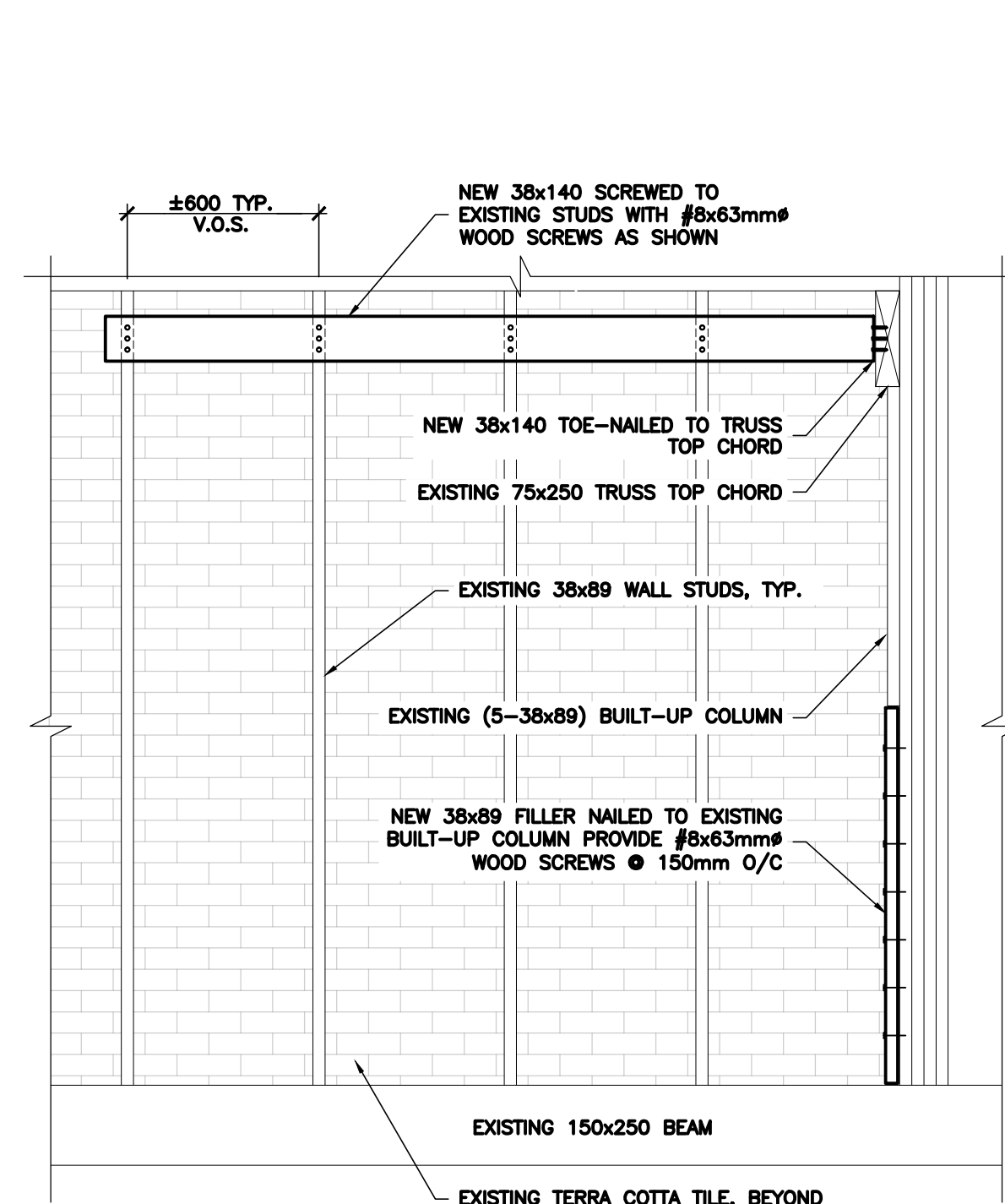
R109



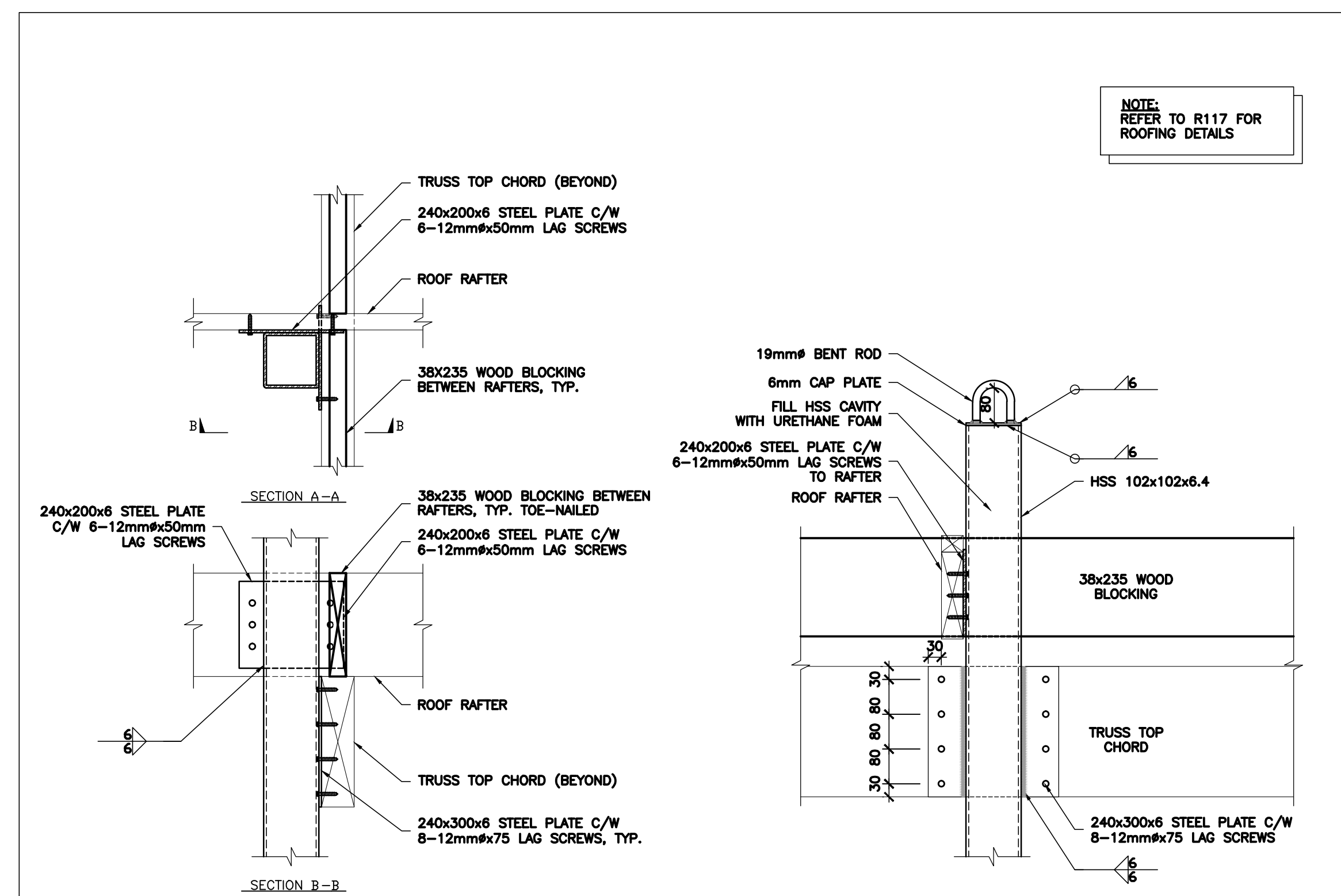
1 ROOF PLAN
N.T.S.



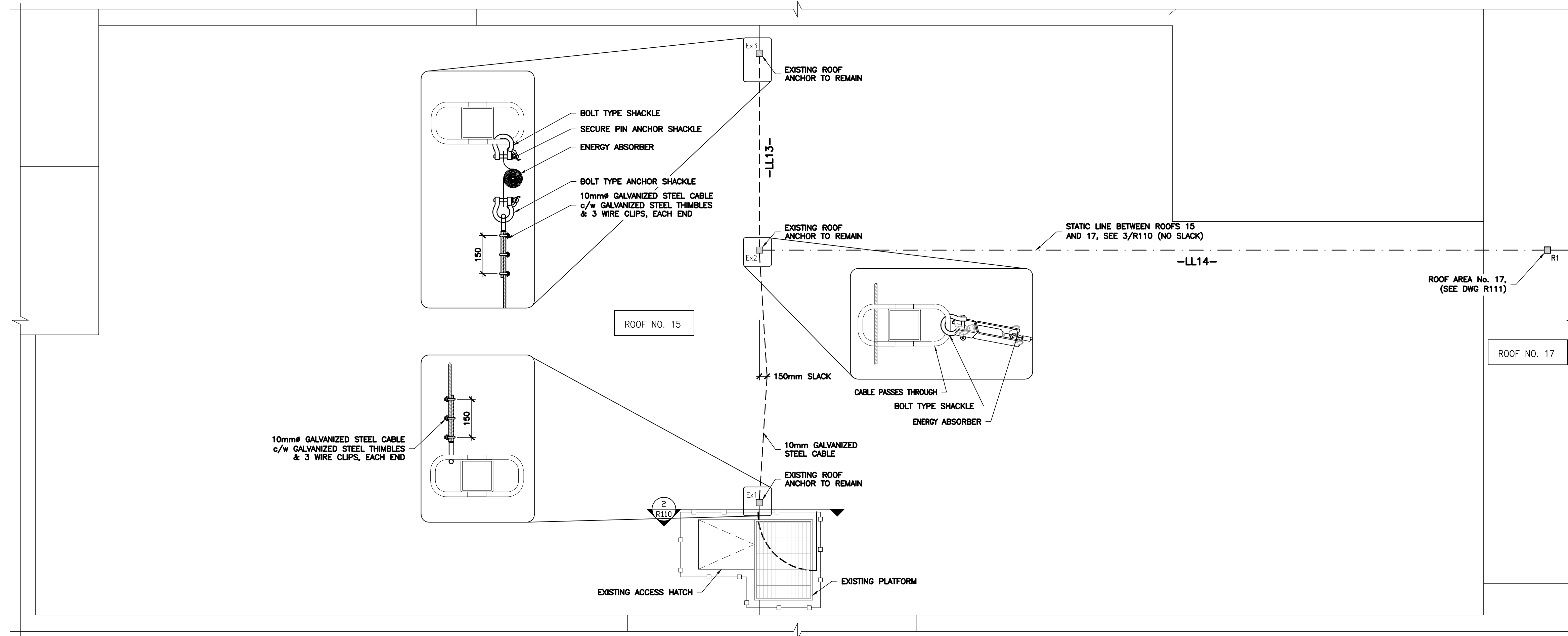
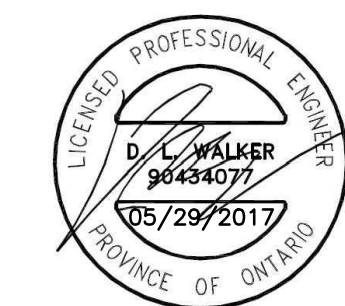
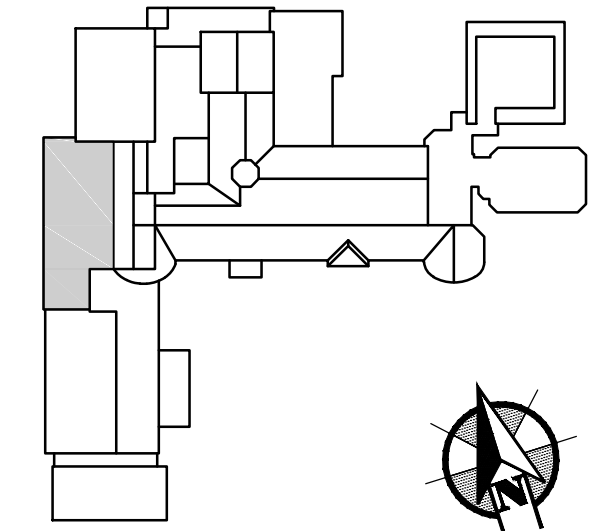
2 ANCHOR SECTION
N.T.S.



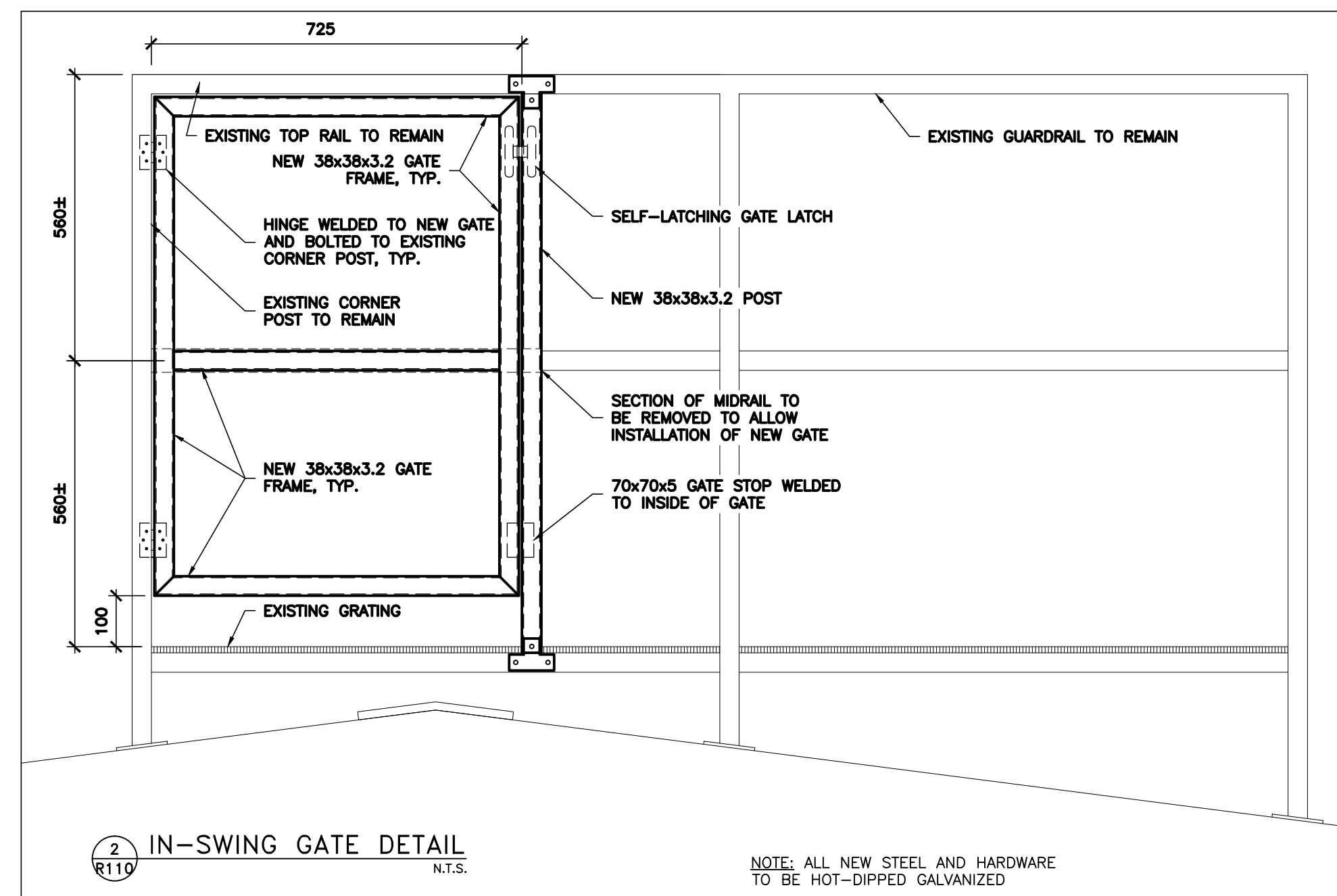
3 BRACING DETAIL
N.T.S.



4 ANCHOR DETAIL
N.T.S.



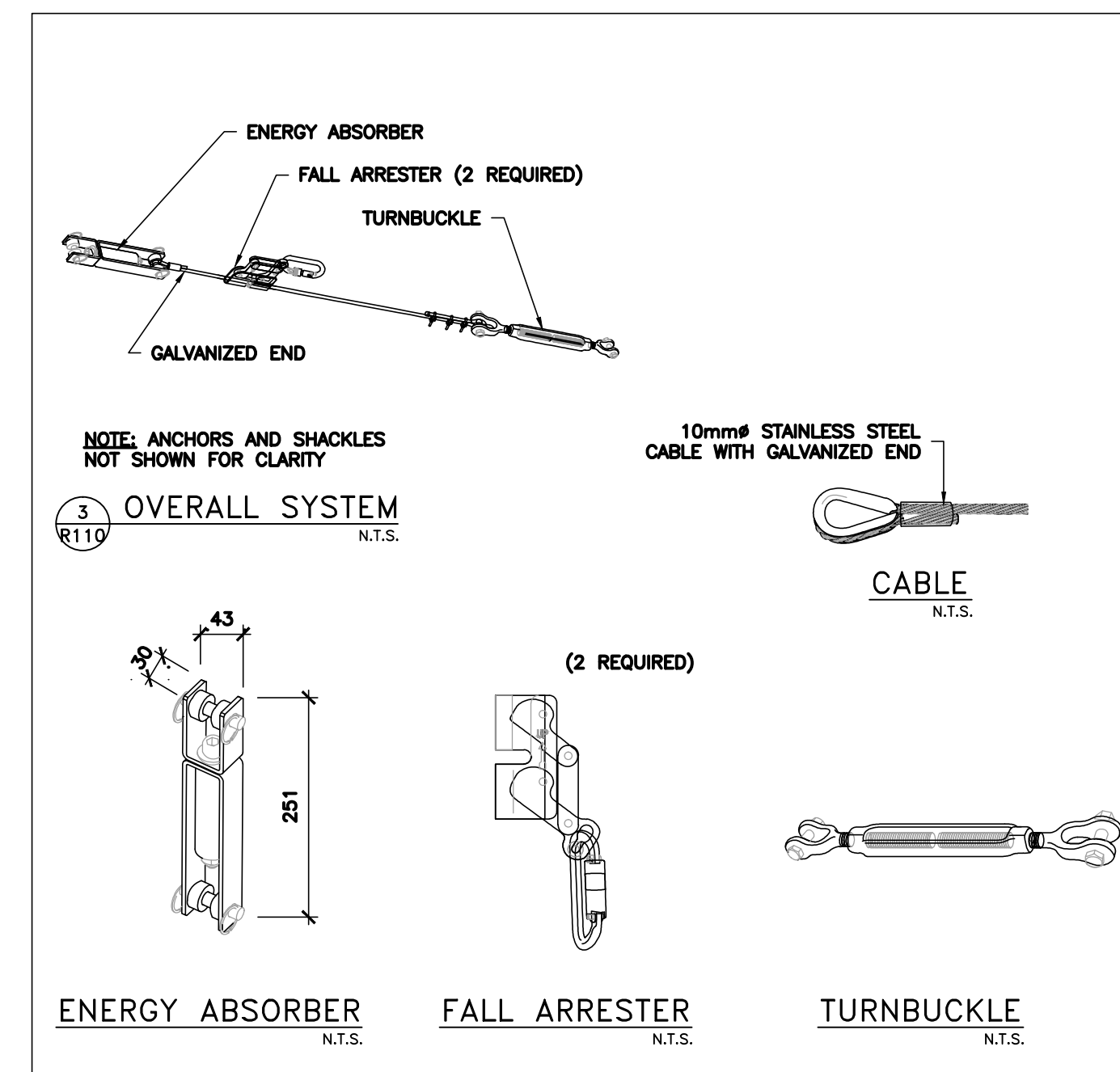
1 ROOF PLAN
N.T.S.



2 IN-SWING GATE DETAIL
N.T.S.

NOTE: ALL NEW STEEL AND HARDWARE TO BE HOT-DIPPED GALVANIZED

NOTE: REFER TO R117 FOR ROOFING DETAILS



NOTE: ANCHORS AND SHACKLES NOT SHOWN FOR CLARITY

3 OVERALL SYSTEM
N.T.S.

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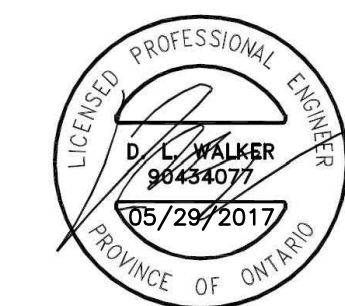
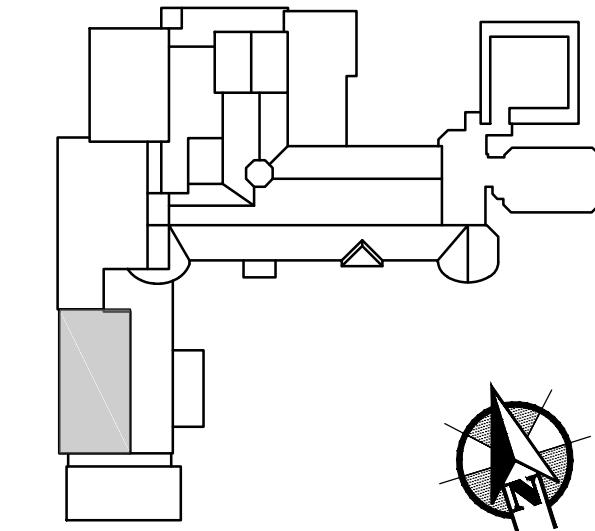
project / projet

OTTAWA, ONTARIO
NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES

drawing / dessin

ROOF AREA 15
PLAN AND DETAILS

reviewed by / vérifié par	D. WALKER
designed by / conçu par	H. RIVERA
drawn by / dessiné par	S. MARCOLINI
date / date	APRIL, 2017
scale / échelle	AS SHOWN
NCC project no. / no. du projet de la CCN	
sheet no. / no. de la feuille	R110



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B	ISSUED FOR TENDER	29-MAY-2017
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project
projet

OTTAWA, ONTARIO
**NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES**

drawing
dessin

**ROOF AREA 17
PLAN AND DETAILS**

reviewed by
vérifié par D. WALKER

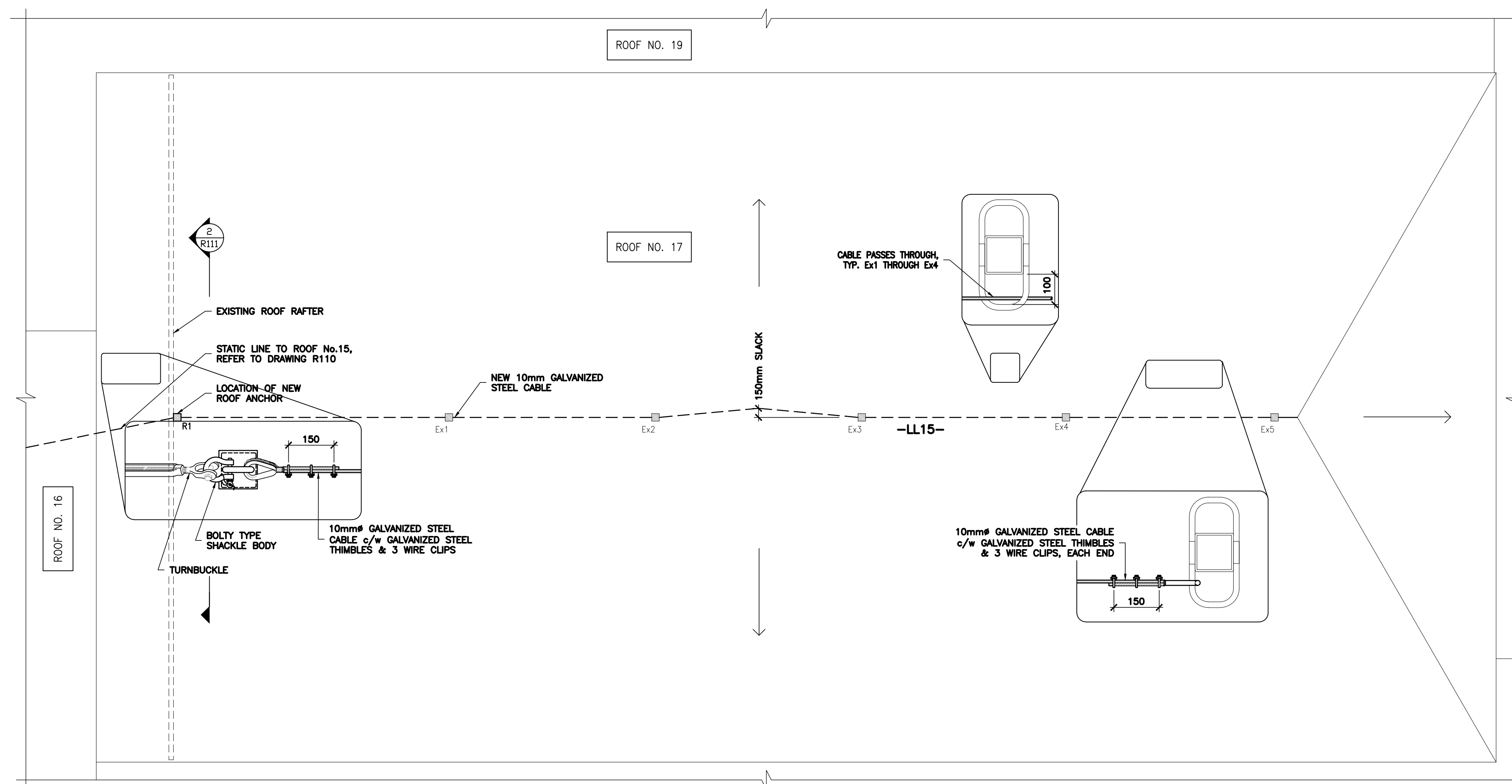
designed by
conçu par H. RIVERA

drawn by
dessiné par S. MARCOLINI

date APRIL, 2017 scale AS SHOWN

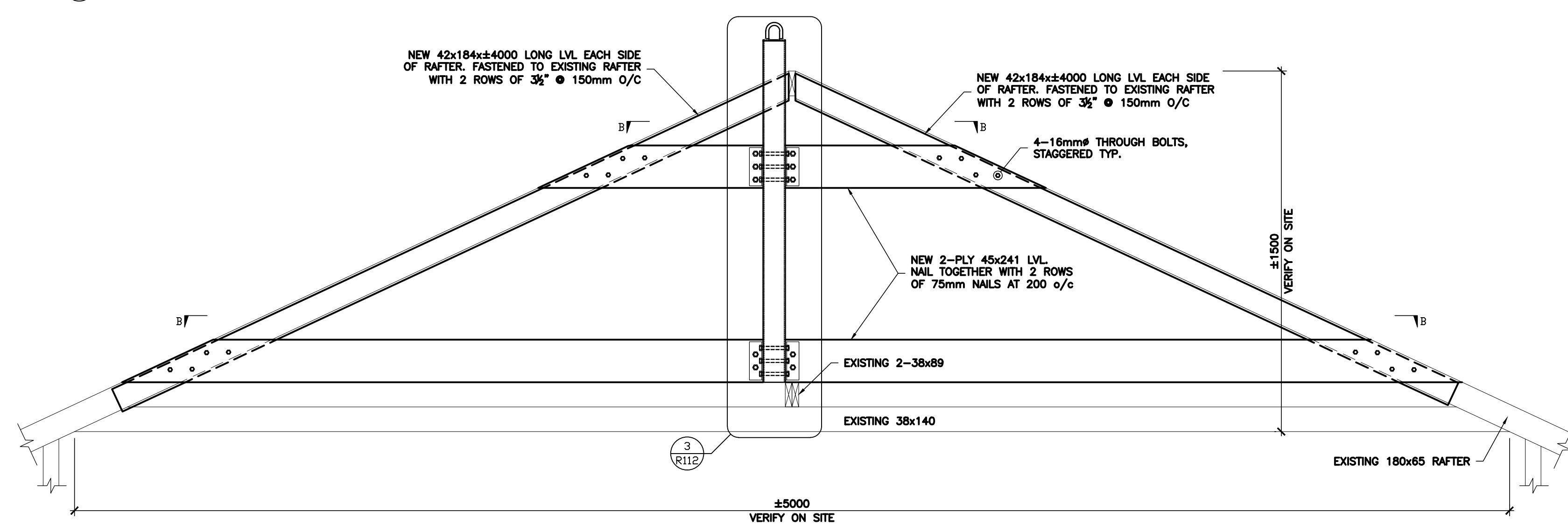
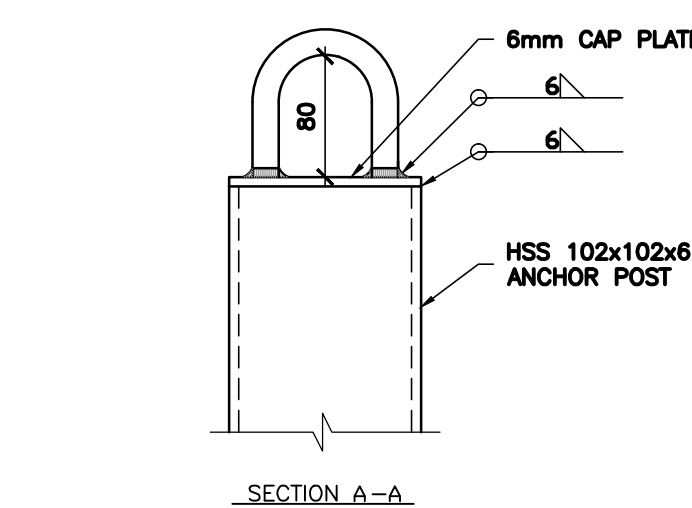
NCC project no. sheet no.
no. du projet de la CCN no. de la feuille

R111

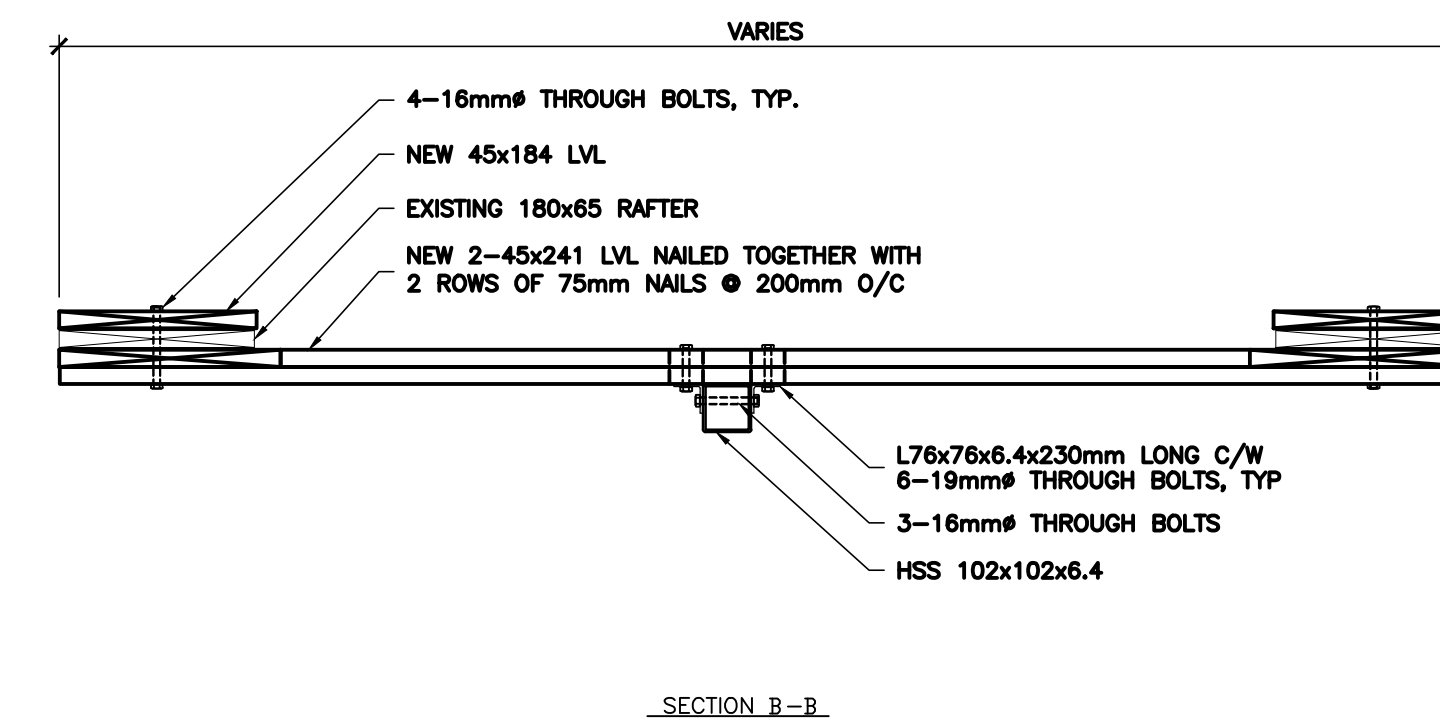


1 ROOF PLAN
N.T.S.

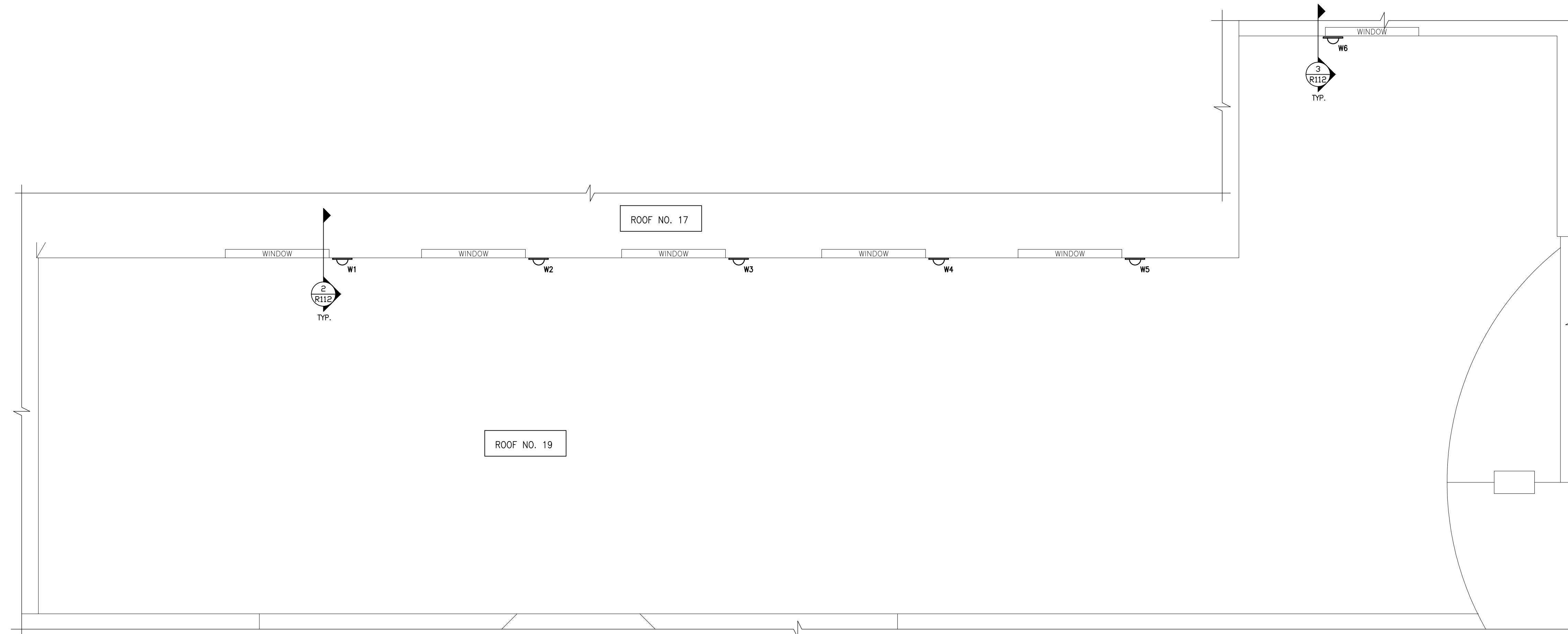
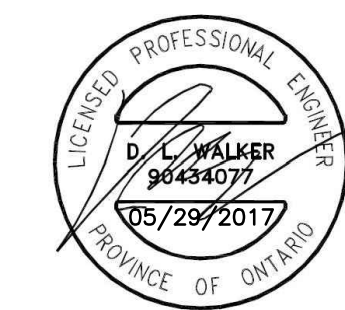
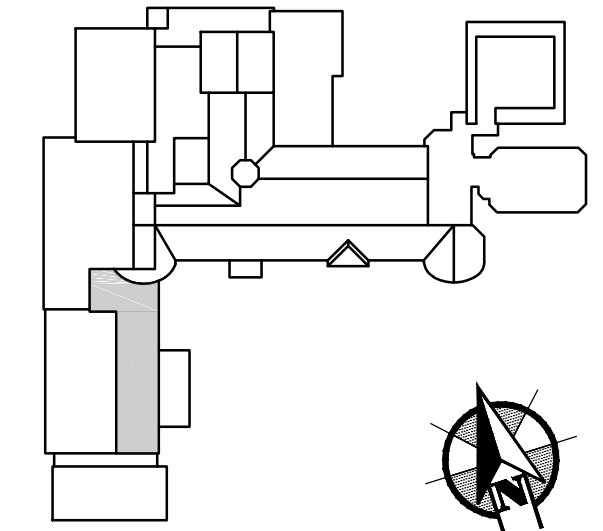
3 ANCHOR DETAIL
N.T.S.



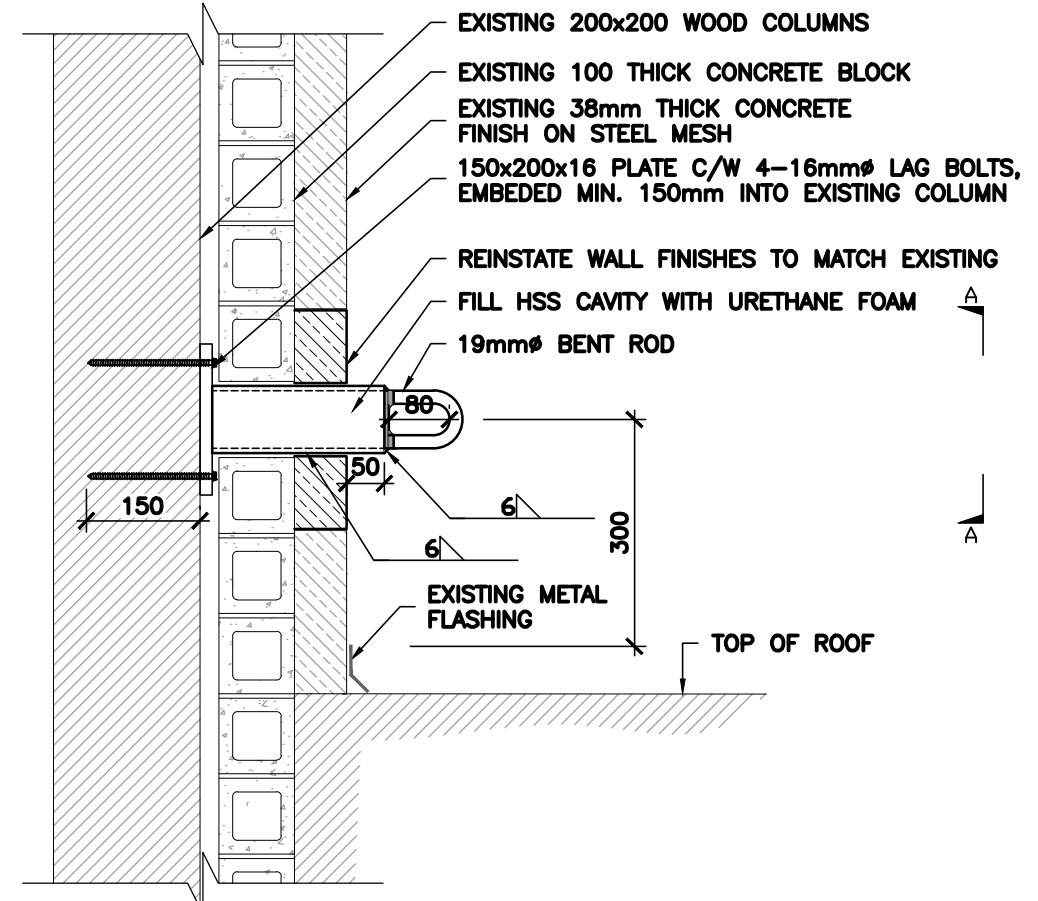
2 TRUSS DETAIL
N.T.S.



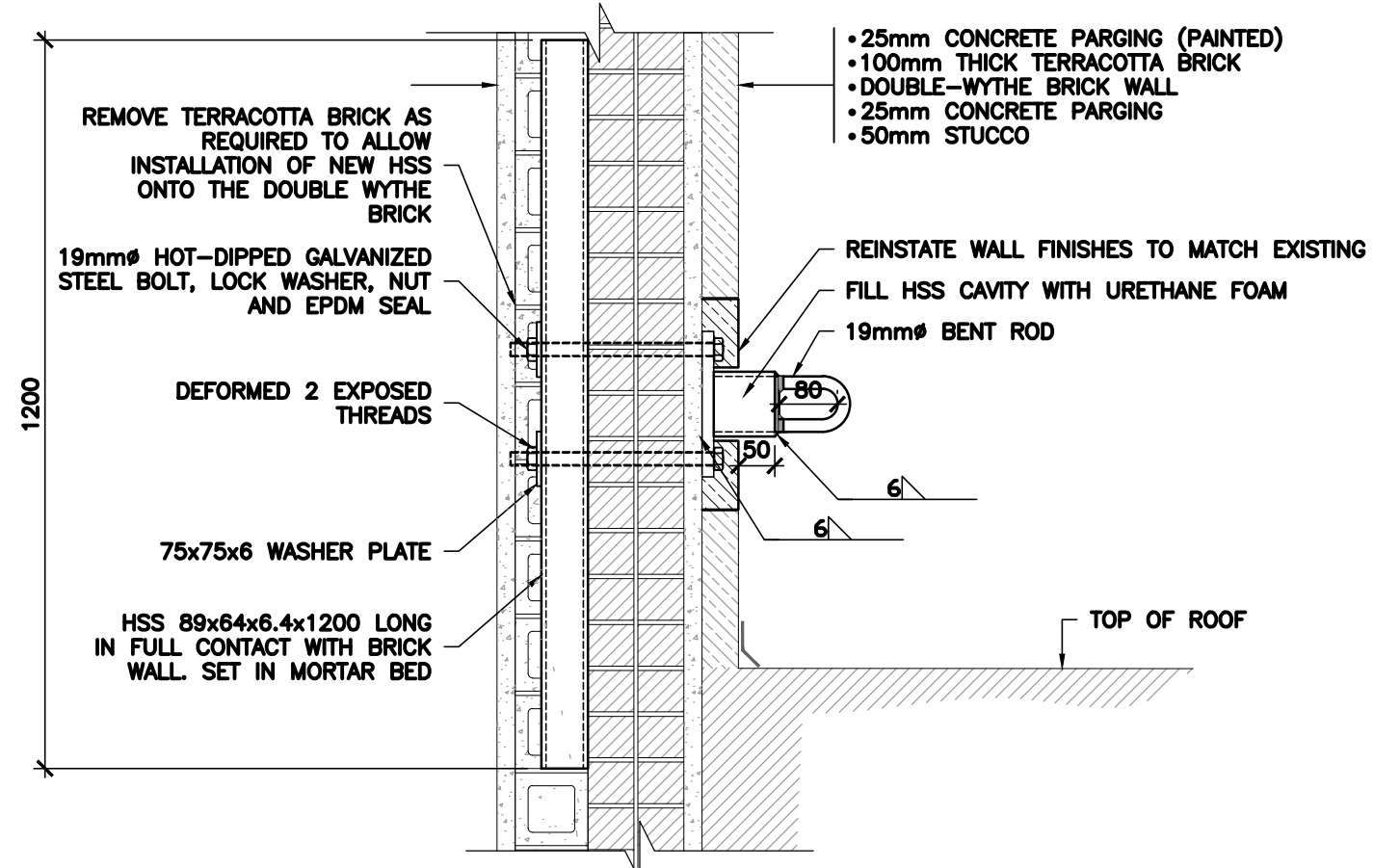
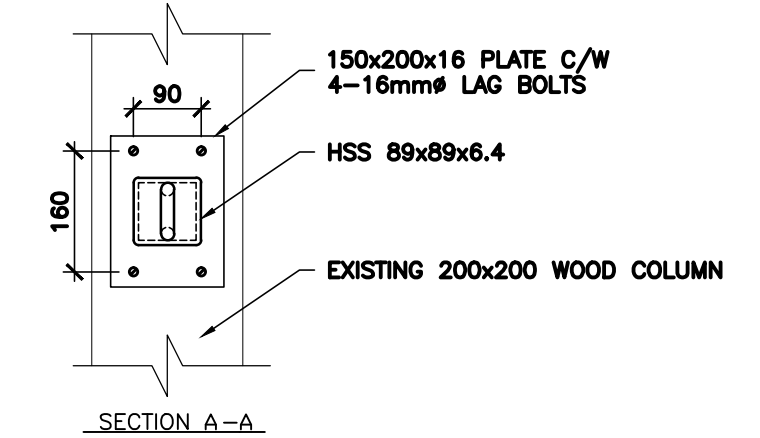
NOTE:
REFER TO R117 FOR
ROOFING DETAILS



1 ROOF PLAN
N.T.S.



2 WALL ANCHOR DETAIL (W1 THROUGH W5)
N.T.S.



3 WALL ANCHOR DETAIL (W6)
N.T.S.

NOTE:
REINSTATE ALL INTERIOR
AND EXTERIOR FINISHES
TO MATCH EXISTING.

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NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES

drawing
dessin

ROOF AREA 19
PLAN AND DETAILS

reviewed by vérifié par	D. WALKER
designed by conçu par	H. RIVERA
drawn by dessiné par	S. MARCOLINI
date	APRIL, 2017
scale échelle	AS SHOWN
NCC project no. no. du projet de la CCN	sheet no. no. de la feuille
---	R112



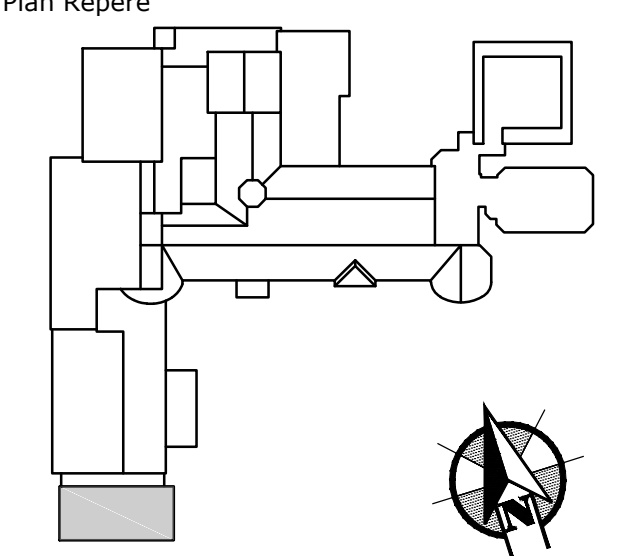
Capital Planning and Real Asset Management Branch
 Direction de l'aménagement de la capitale et gestion de l'immobilier

Design and Construction Division
 Division design et construction
 director - Claude Robert - directeur

consultant
 expert-conseil



Key Plan
 Plan Repère



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project
 projet

OTTAWA, ONTARIO
 NCC RESIDENCE #1
 TRAVEL RESTRAINT
 SYSTEM UPGRADES

drawing
 dessin

NOT USED

reviewed by
 vérifié par D. WALKER

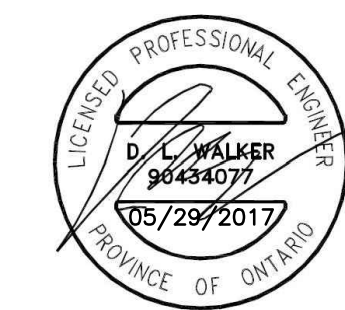
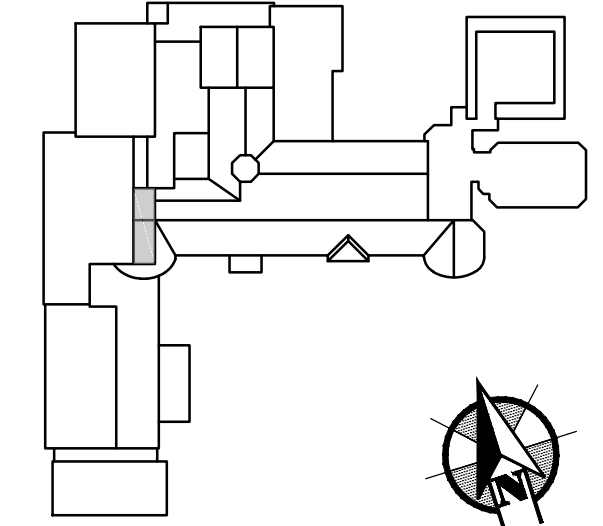
designed by
 conçu par H. RIVERA

drawn by
 dessiné par S. MARCOLINI

date APRIL, 2017 scale AS SHOWN

NCC project no. sheet no.
 no. du projet de la CCN no. de la feuille
 --- R113

NOT USED



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project
projet

OTTAWA, ONTARIO
**NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES**

drawing
dessin

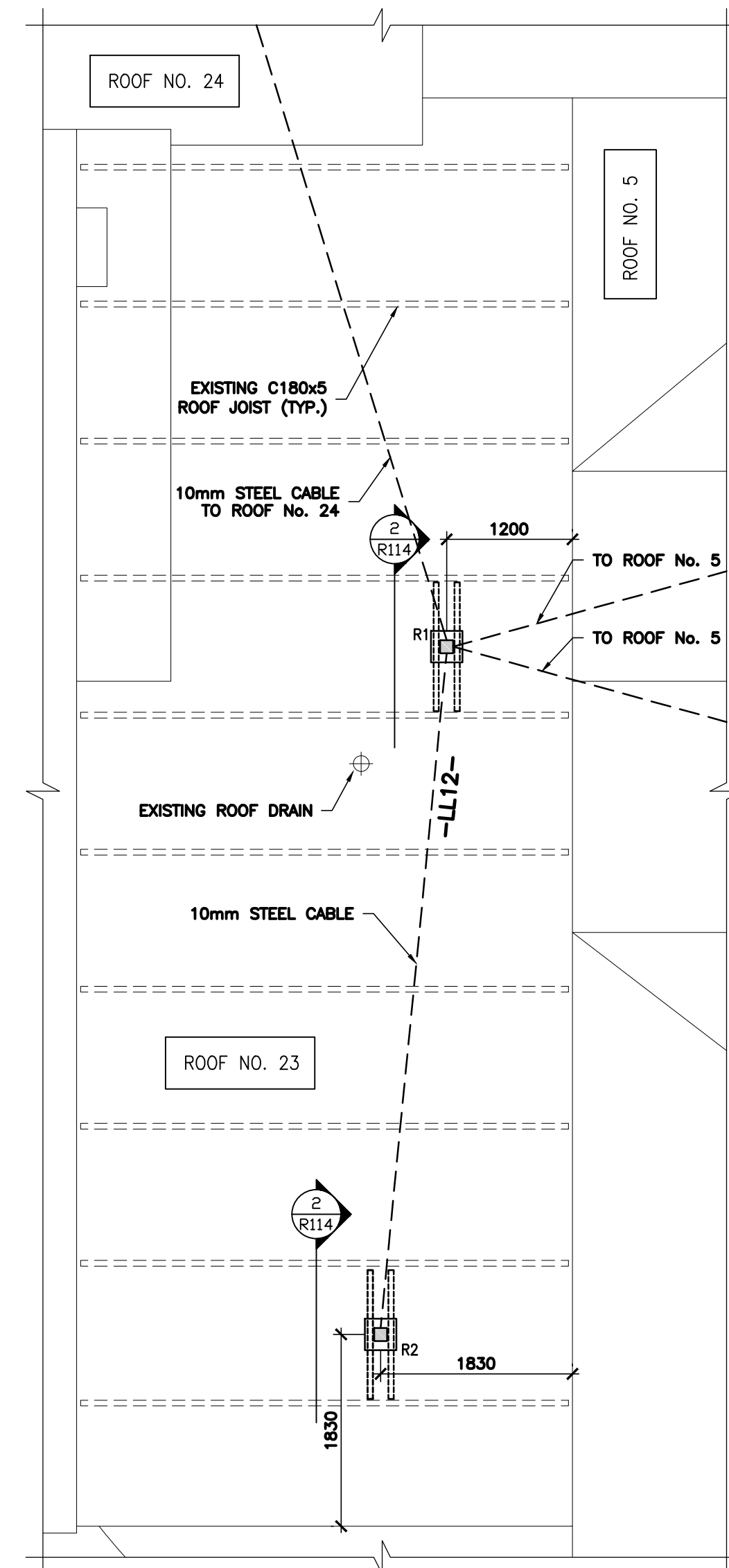
**ROOF AREA 23
PLANS AND DETAILS**

reviewed by vérifié par	D. WALKER
designed by conçu par	H. RIVERA
drawn by dessiné par	S. MARCOLINI

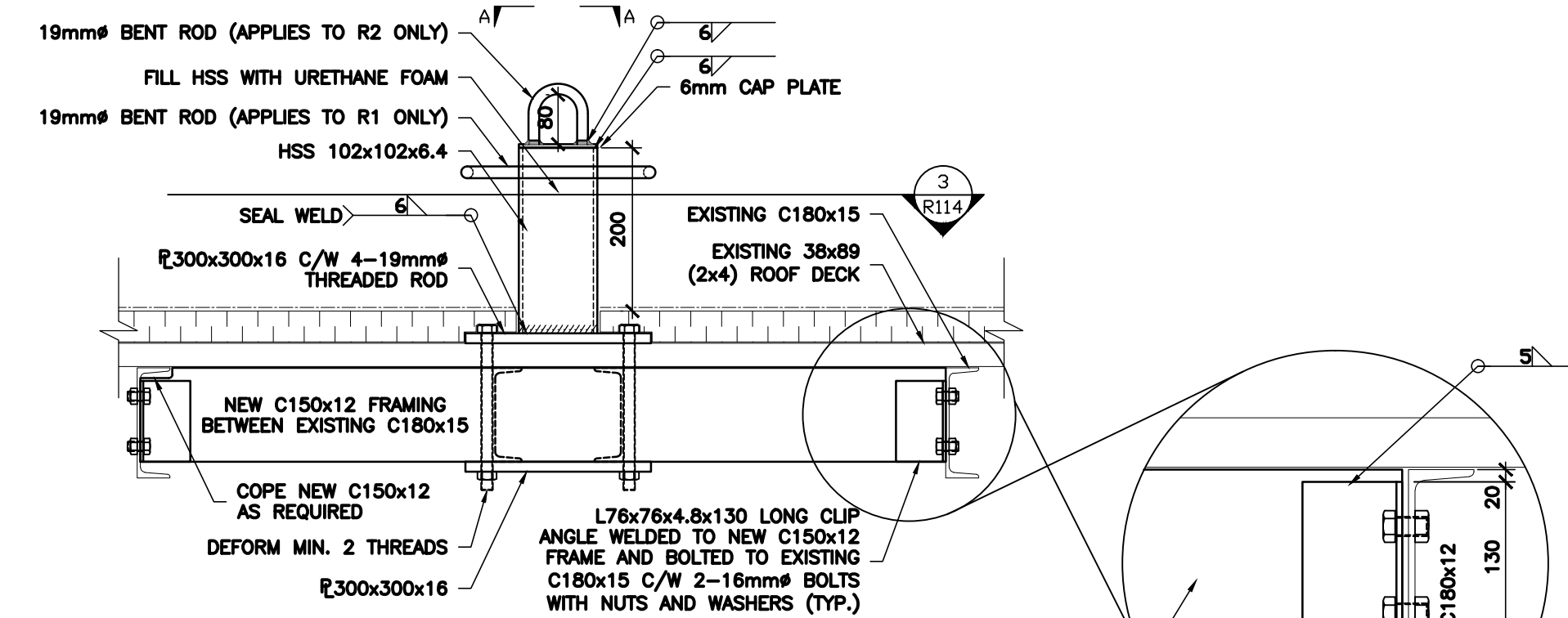
date APRIL 2017 scale AS SHOWN
échelle

NCC project no. sheet no.
no. du projet de la CCN no. de la feuille

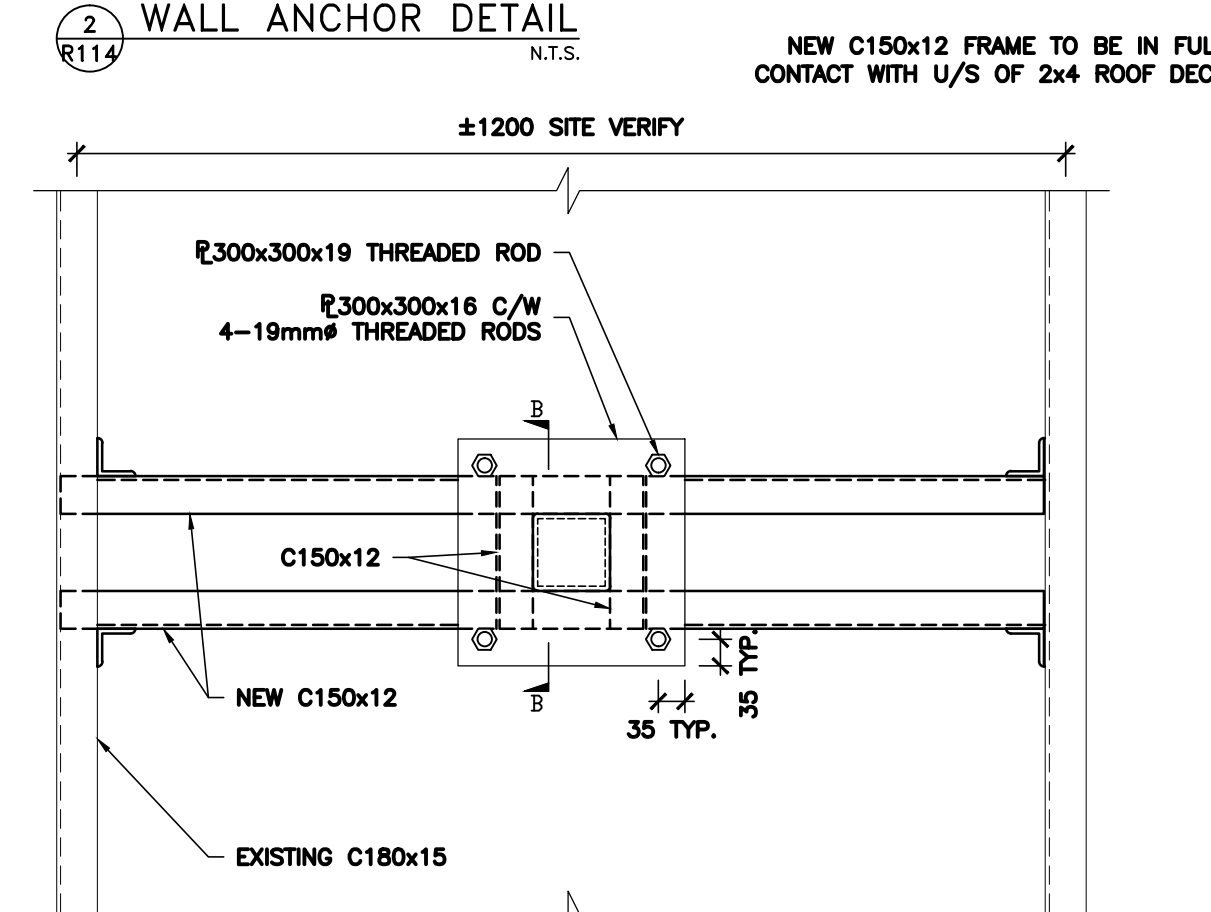
R114



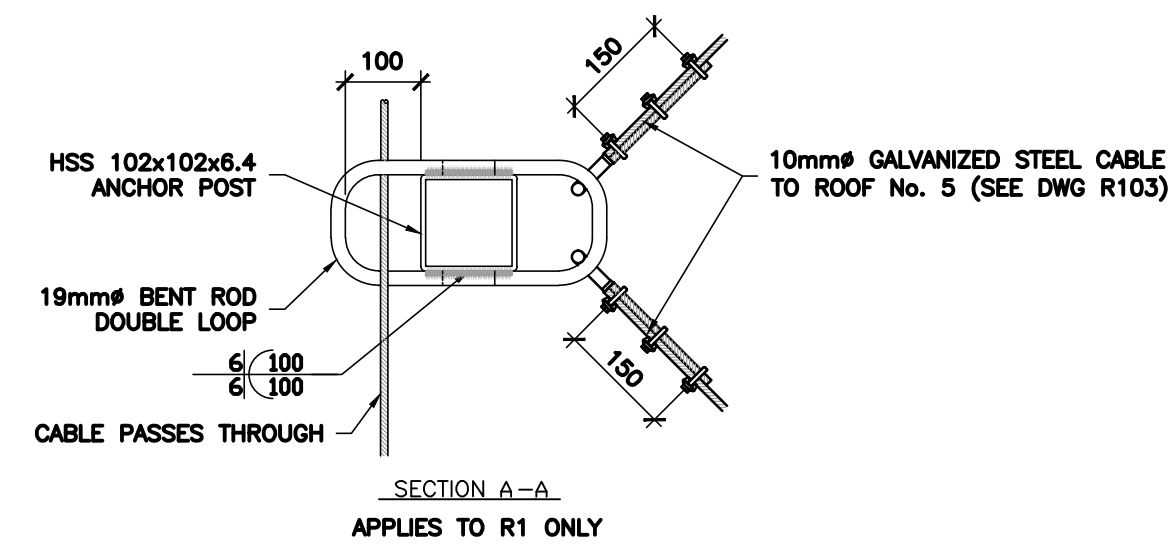
1 ROOF PLAN
R114 N.T.S.



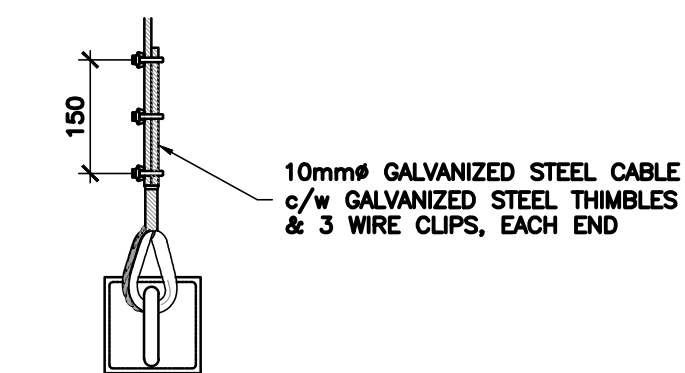
2 WALL ANCHOR DETAIL
R114 N.T.S.



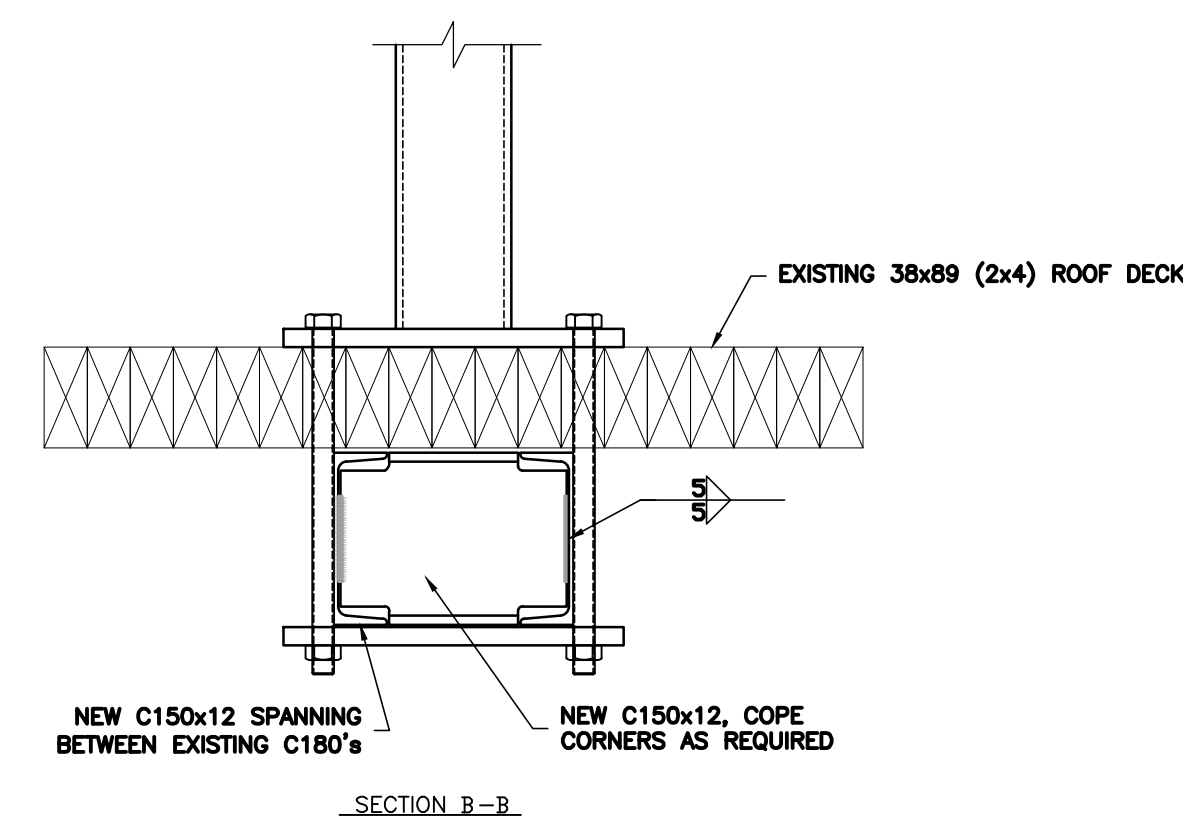
3 WALL ANCHOR PLAN
R114 N.T.S.



SECTION A-A
APPLIES TO R1 ONLY

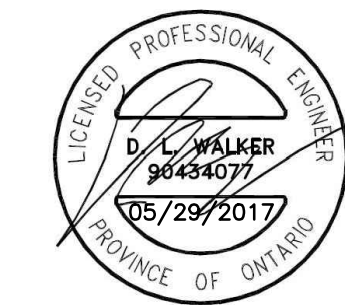
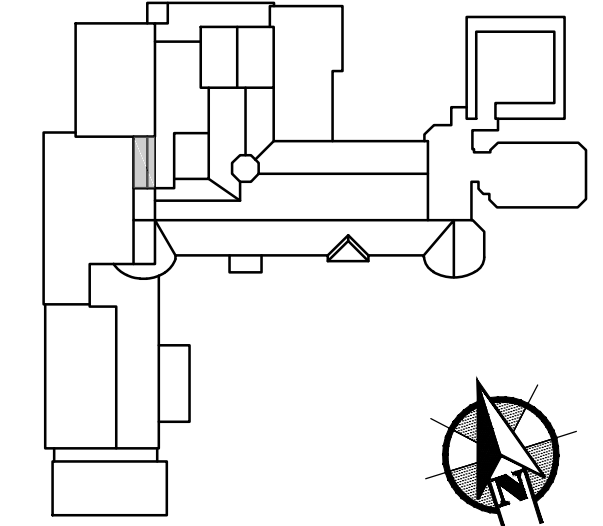


SECTION A-A
APPLIES TO R2 ONLY



SECTION B-B

NOTE:
REFER TO R117 FOR
ROOFING DETAILS



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OTTAWA, ONTARIO
**NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES**

drawing
dessin

**ROOF AREA 24
PLANS AND DETAILS**

reviewed by
vérifié par D. WALKER

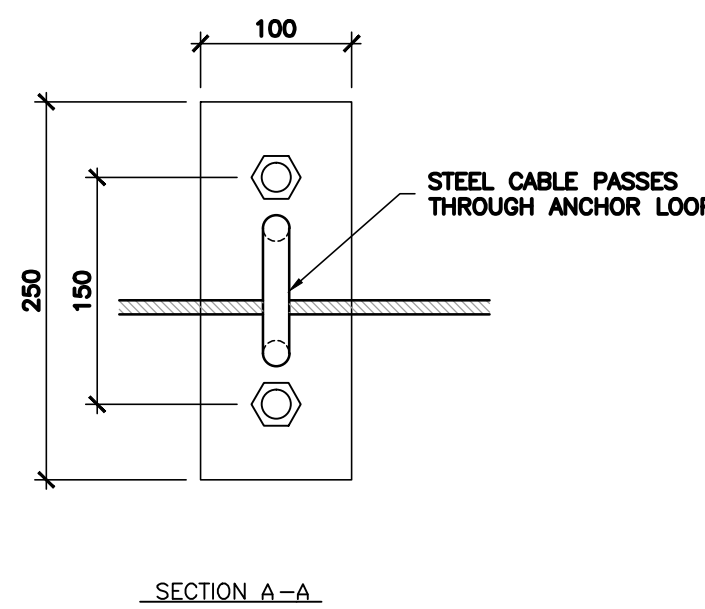
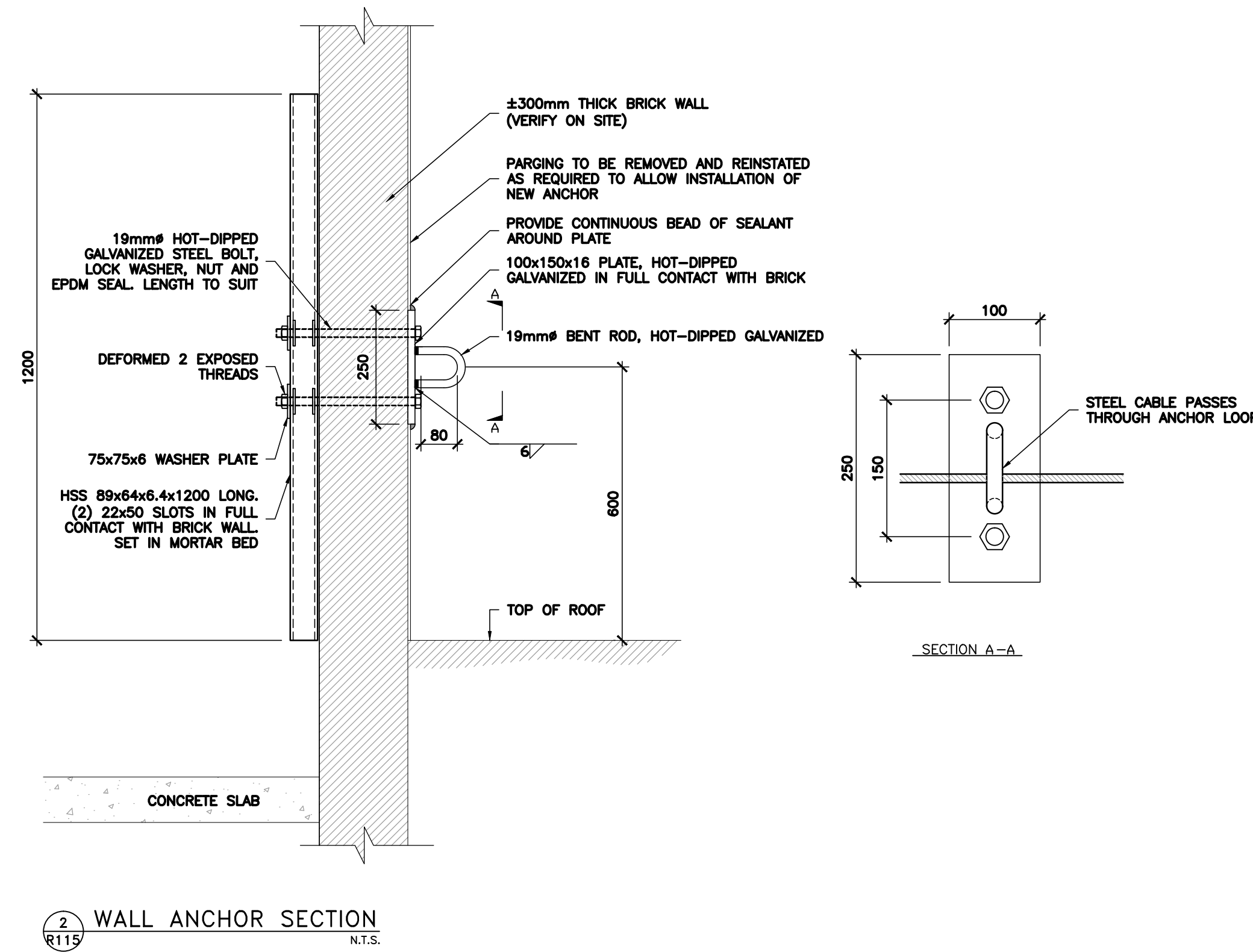
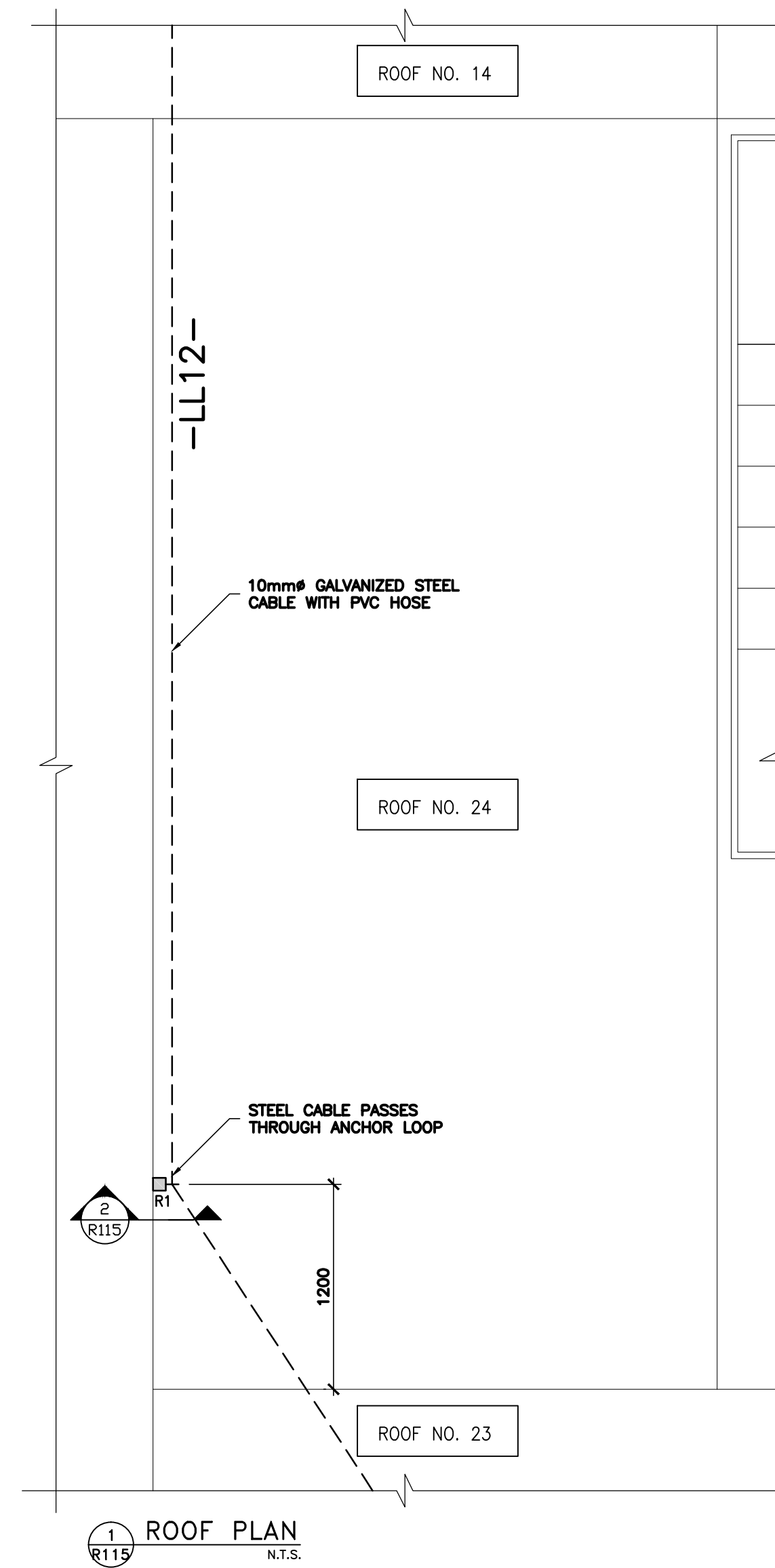
designed by
conçu par H. RIVERA

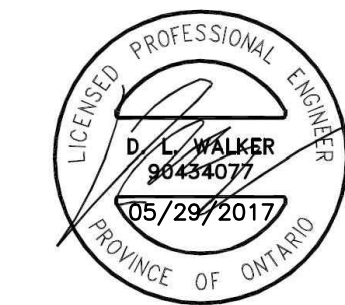
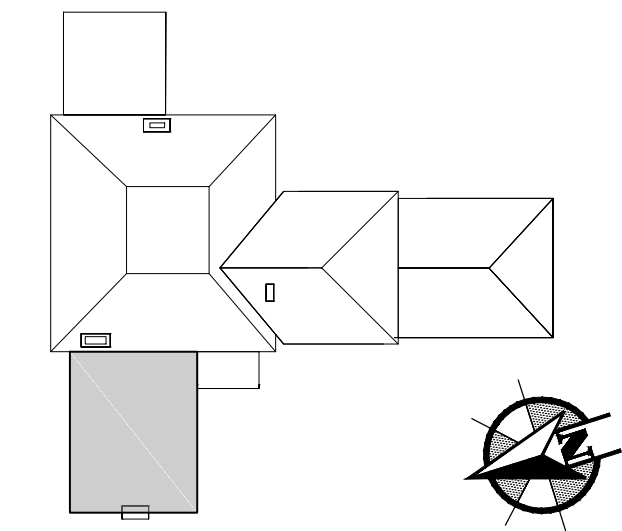
drawn by
dessiné par S. MARCOLINI

date APRIL, 2017 scale
échelle AS SHOWN

NCC project no. sheet no.
no. du projet de la CCN no. de la feuille

--- **R115**





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project
projet

OTTAWA, ONTARIO
**NCC RESIDENCE #2,
TRAVEL RESTRAINT
SYSTEM UPGRADES**

drawing
dessin

**NCC RESIDENCE #2
PLAN AND DETAILS**

approved by
approuvé par D. WALKER

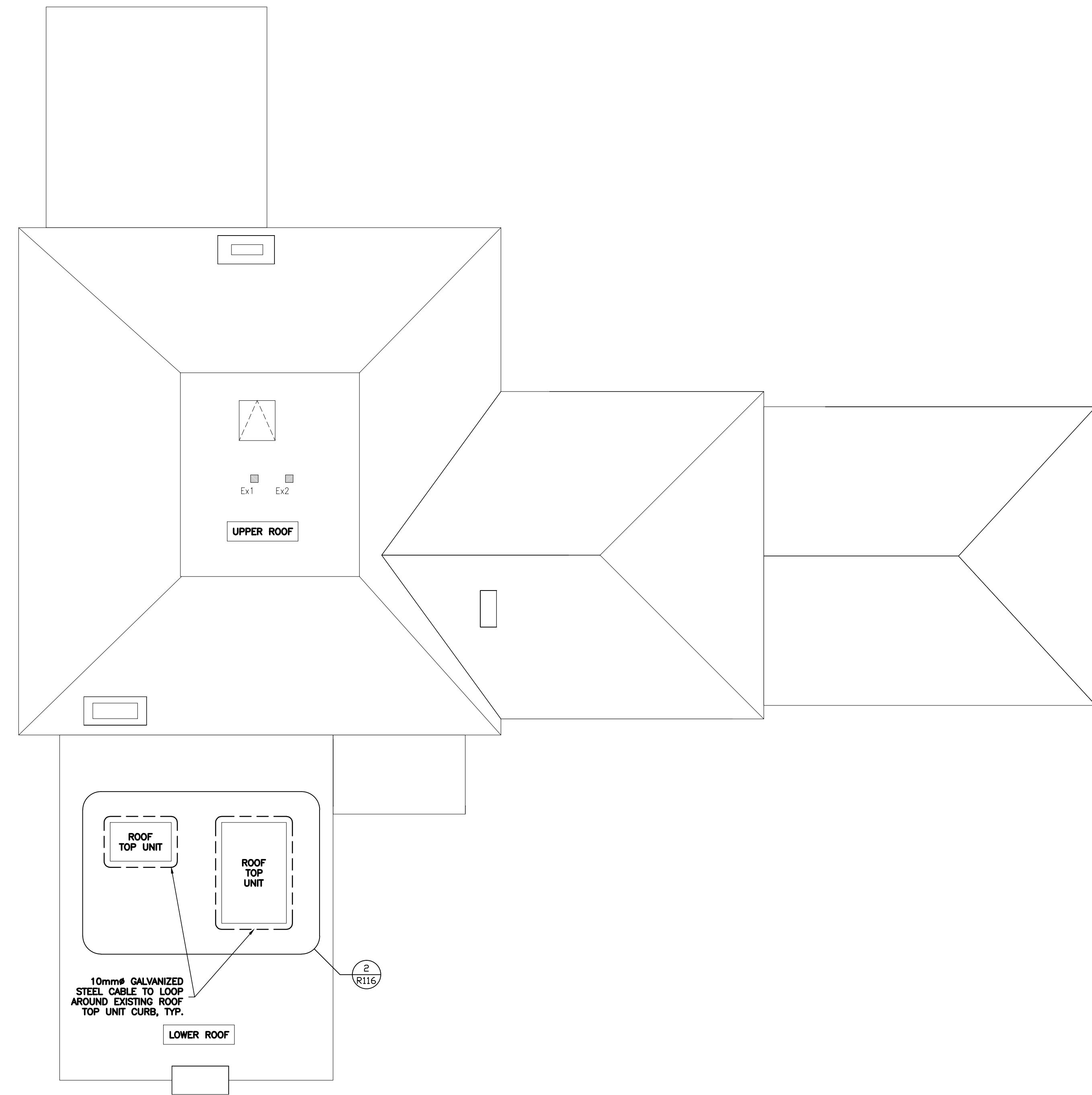
designed by
conçu par H. RIVERA

drawn by
dessiné par S. MARCOLINI

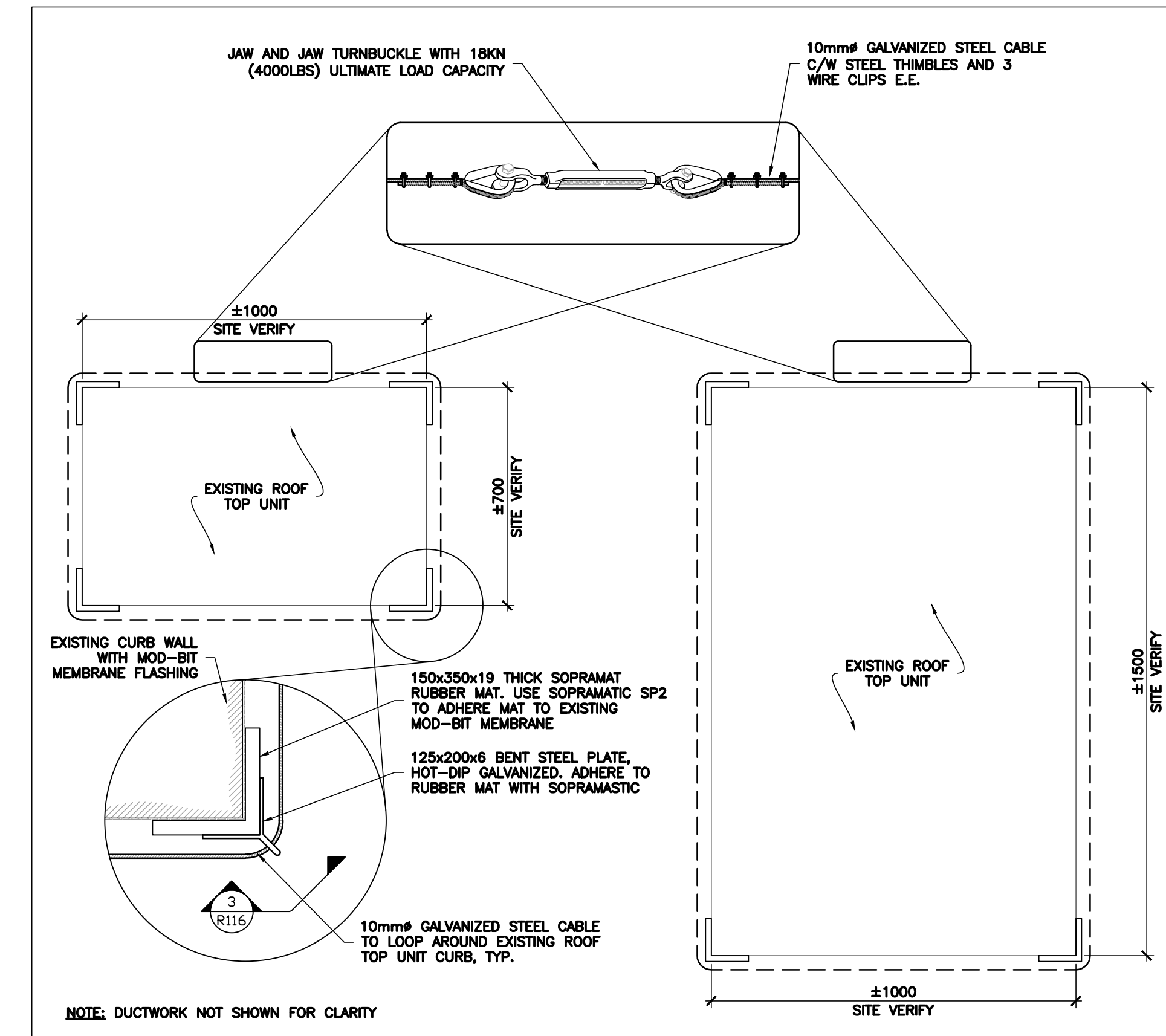
date APRIL, 2017 scale
échelle AS SHOWN

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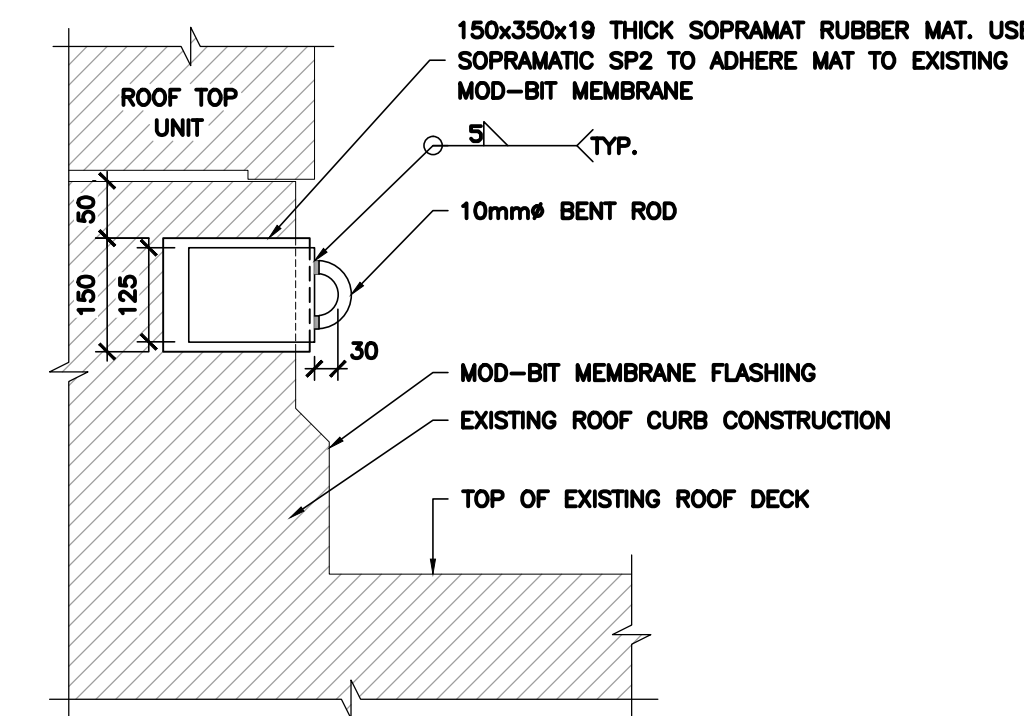
R116



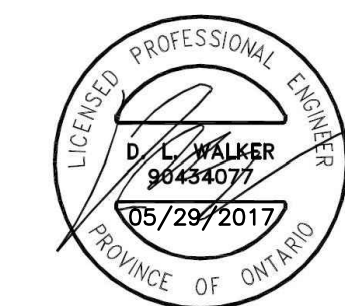
1 ROOF PLAN
N.T.S.



2 ROOF TOP UNIT DETAILS
N.T.S.



3 CURB ANCHOR DETAIL
N.T.S.



issued or revised
émis ou révisé

no.	description	date
B	ISSUED FOR TENDER	29-MAY-2017
A	ISSUED FOR REVIEW	07-APR-2017

project
projet

OTTAWA, ONTARIO
NCC RESIDENCE #1
TRAVEL RESTRAINT
SYSTEM UPGRADES

drawing
dessin

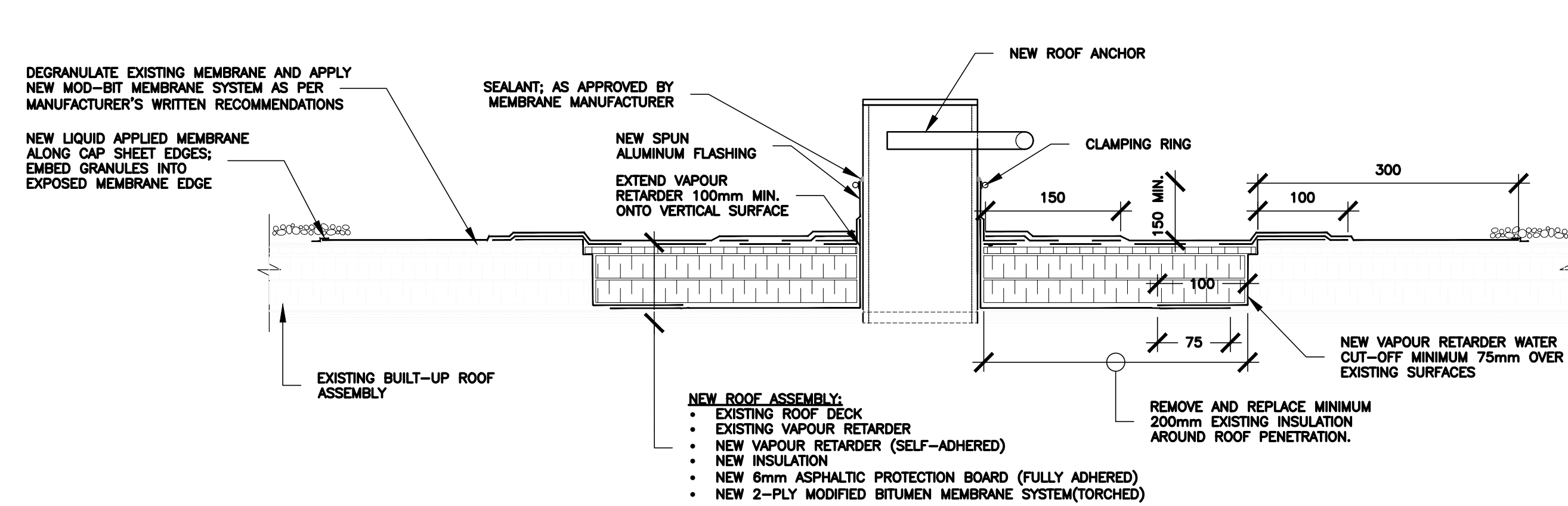
ROOFING DETAILS

reviewed by vérifié par	D. WALKER
designed by conçu par	H. RIVERA
drawn by dessiné par	S. MARCOLINI
date date	APRIL, 2017
scale échelle	AS SHOWN

NCC project no.
no. du projet de la CCN

sheet no.
no. de la feuille

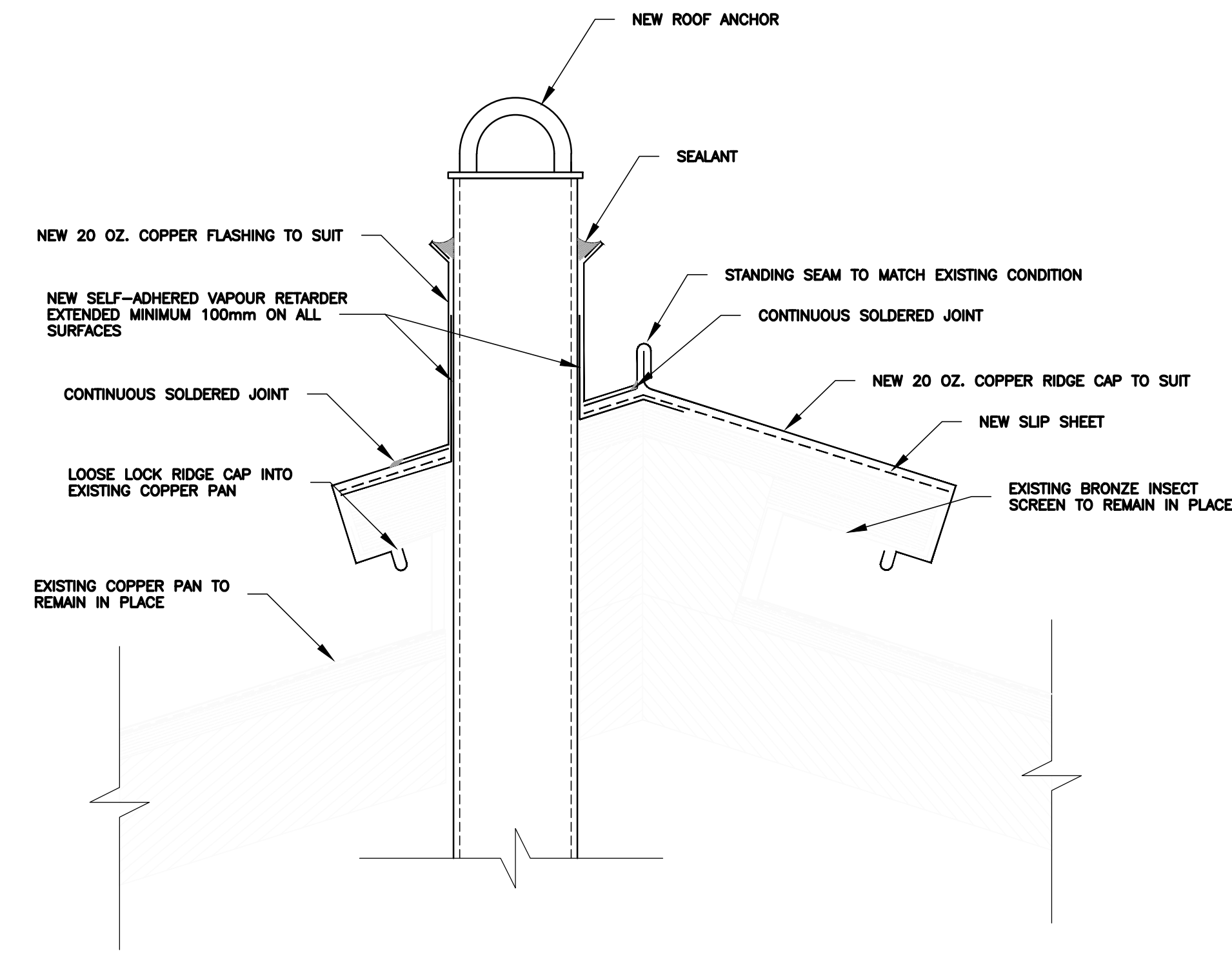
R117



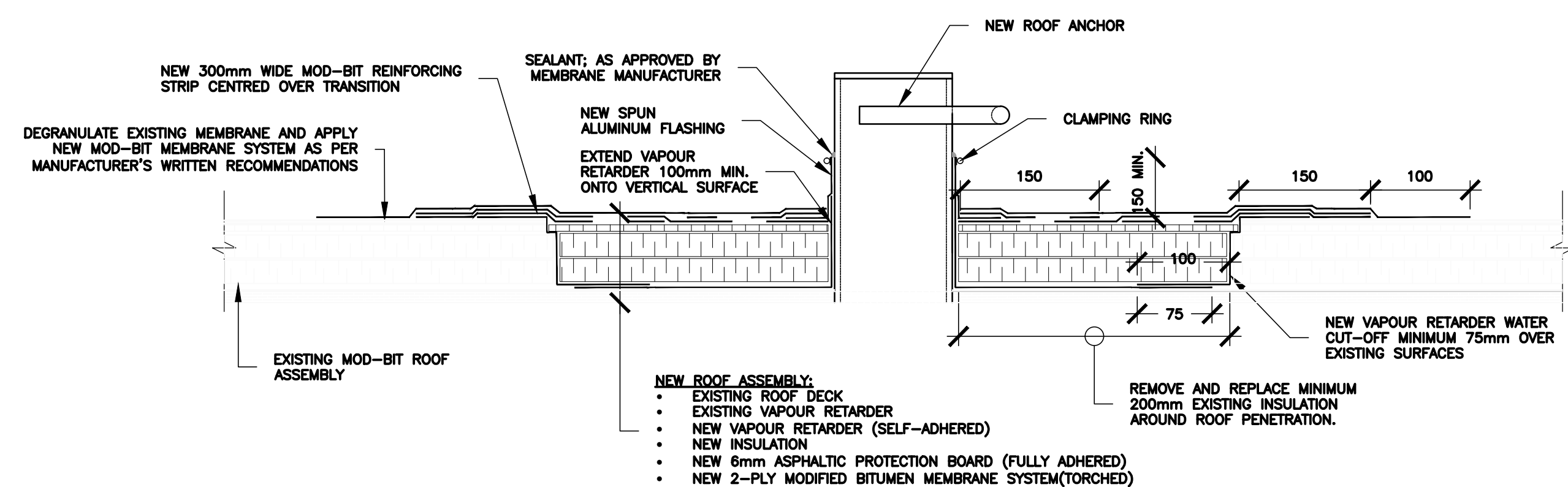
GENERAL NOTES:

1. DEGRANULATE EXISTING BUILT-UP ROOFING MEMBRANE, REMOVE EXISTING ASPHALT AND FELT MEMBRANE AND INSULATION, AS SHOWN. EXISTING VAPOUR RETARDER TO REMAIN IN PLACE TO ALLOW OVERLAP OF NEW VAPOUR RETARDER.
2. PROVIDE NEW SELF-ADHERED SBS MODIFIED BITUMEN VAPOUR RETARDER WITH TRI-LAMINATED POLYETHYLENE TOP SURFACE. LAP ONTO ALL SURFACES MINIMUM 75mm. SEAL ONTO VERTICAL SURFACE OF ROOF ANCHOR.
3. PROVIDE NEW INSULATION TO MATCH EXISTING TYPE AND THICKNESS; ASSUME 50mm OF EXISTING INSULATION. PROVIDE NEW SEMI-RIGID ROOFING RECOVERY BOARD COMPOSED OF MINERAL-FORTIFIED ASPHALTIC CORE FORMED BETWEEN TWO ASPHALTIC-SATURATED FIBERGLASS MAT REINFORCEMENTS. MECHANICALLY FASTEN OR ADHERE WITH EITHER LOW RISE URETHANE FOAM OR LIQUID APPLIED ASPHALT URETHANE, APPROVED BY ROOFING MANUFACTURER.
4. TORCH APPLY PRELIMINARY LAYERS OF MODIFIED BITUMEN MEMBRANE, AS REQUIRED, TO MATCH HEIGHT OF SURROUNDING BUILT-UP MEMBRANE. TORCH APPLY 2-PLY MODIFIED BITUMEN MEMBRANE PER MANUFACTURER'S INSTRUCTIONS, LAPPED ONTO SURROUNDING SURFACES, AS SHOWN.

1 DETAIL - BUILT-UP ROOF ASSEMBLY
R117 N.T.S.



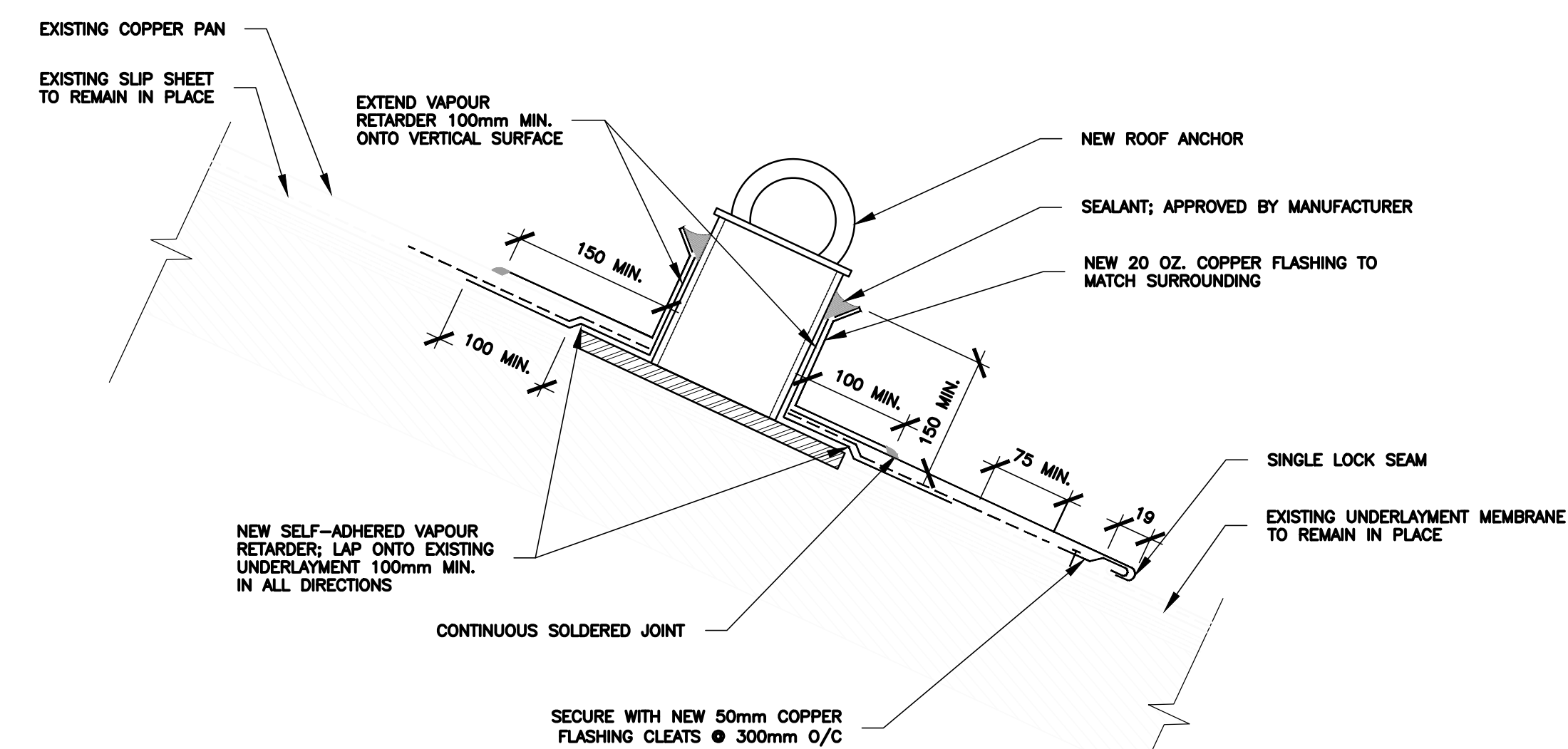
3 DETAIL - COPPER ROOF AT RIDGE
R117 N.T.S.



GENERAL NOTES:

1. DEGRANULATE EXISTING MODIFIED BITUMEN ROOFING MEMBRANE, REMOVE MODIFIED BITUMEN MEMBRANE AND INSULATION, AS SHOWN. EXISTING VAPOUR RETARDER TO REMAIN IN PLACE TO ALLOW OVERLAP OF NEW VAPOUR RETARDER.
2. PROVIDE NEW SELF-ADHERED SBS MODIFIED BITUMEN VAPOUR RETARDER WITH TRI-LAMINATED POLYETHYLENE TOP SURFACE. LAP ONTO ALL SURFACES MINIMUM 75mm. SEAL ONTO VERTICAL SURFACE OF ROOF ANCHOR.
3. PROVIDE NEW INSULATION TO MATCH EXISTING TYPE AND THICKNESS; ASSUME 50mm OF EXISTING INSULATION. PROVIDE NEW SEMI-RIGID ROOFING RECOVERY BOARD COMPOSED OF MINERAL-FORTIFIED ASPHALTIC CORE FORMED BETWEEN TWO ASPHALTIC-SATURATED FIBERGLASS MAT REINFORCEMENTS. MECHANICALLY FASTEN OR ADHERE WITH EITHER LOW RISE URETHANE FOAM OR LIQUID APPLIED ASPHALT URETHANE, APPROVED BY ROOFING MANUFACTURER.
4. TORCH APPLY PRELIMINARY LAYERS OF MODIFIED BITUMEN MEMBRANE, AS REQUIRED, TO MATCH HEIGHT OF SURROUNDING BUILT-UP MEMBRANE. TORCH APPLY 2-PLY MODIFIED BITUMEN MEMBRANE PER MANUFACTURER'S INSTRUCTIONS, LAPPED ONTO SURROUNDING SURFACES, AS SHOWN.

2 DETAIL - MOD BIT ROOF ASSEMBLY
R117 N.T.S.



GENERAL NOTES:

1. EXTEND FLANGE OF COPPER FLASHING MIN. 100mm ALONG SIDES AND DOWNSLOPE AND MIN. 150mm UPSLOPE OF ROOF ANCHOR.
2. SECURE NEW FLASHING WITH 50mm COPPER CLEATS SECURED 300mm O/C. JOIN TO EXISTING COPPER PANS WITH SINGLE LOCK SEAM.

4 DETAIL - COPPER ROOF AT SLOPE
R117 N.T.S.