

OVERALL ROOF PLAN
1:500

- LEGEND**
- DECK DRAIN
 - ⊗ EXHAUST FAN
 - ⊙ VENT STACK
 - GENERATOR EXHAUST PIPE
 - ACCESS HATCH
 - SLOPE LINES

GENERAL NOTES

1. UNDERTAKE ALL WORK IN ACCORDANCE WITH THE CURRENT NATIONAL BUILDING CODE.
2. ALL WORK TO COMPLY WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
3. BUILDING TO REMAIN FULLY OCCUPIED DURING CONSTRUCTION. TAKE ALL MEANS NECESSARY TO ENSURE THE SAFETY OF THE INHABITANTS, VISITORS AND GUESTS OF THE BUILDING.
4. PROVIDE AND MAINTAIN BARRICADES AND OTHER PROTECTION AS REQUIRED AROUND AREA(S) OF WORK AT ALL TIMES. AS REQUIRED, OBTAIN LOCATES FROM ALL APPLICABLE UTILITIES PRIOR TO INSTALLING POSTS.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO PROTECT THE BASE BUILDING, INTERIOR FINISHES AND PERMANENT INSTALLATIONS. MAKE GOOD ALL ITEMS DAMAGED DURING CONSTRUCTION.
6. PROTECT ALL HARD AND SOFT LANDSCAPING ITEMS DURING CONSTRUCTION. MAKE GOOD ANY ITEMS DAMAGED DURING CONSTRUCTION. REMOVE EXISTING AND LAY NEW SOD OVER ENTIRE GRASSY AREA AFFECTED BY WORK.
7. DESIGN, MAINTAIN AND CONSTRUCT SCAFFOLDING IN ACCORDANCE WITH CSA-5269.2, "ACCESS SCAFFOLDING FOR CONSTRUCTION PURPOSES".
8. CONTRACTOR SHALL CHECK ALL DIMENSIONS IN FIELD PRIOR TO START OF WORK.
9. CONTRACTOR TO CONFIRM AS-BUILT DIMENSION FOR FIT AND CLEARANCE PRIOR TO FABRICATION OF NEW FIXED DIMENSIONED COMPONENTS.
10. MAINTAIN SITE IN CLEAN AND ORDERLY CONDITION AT ALL TIMES. SITE TO BE CLEANED ON A DAILY BASIS.
11. MAINTAIN ACCESS TO ALL FIRE EXITS, EXTERIOR FIRE HYDRANTS, GAS VALVES AND STANDPIPE CONNECTIONS.
12. MAKE NO HOLES IN ANY STRUCTURAL COMPONENTS WITHOUT WRITTEN APPROVAL BY THE CONSULTANT.
13. WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
14. MAINTAIN RECORD DRAWING SET ON SITE, ALONG WITH ALL OTHER CONTRACT DOCUMENTATION

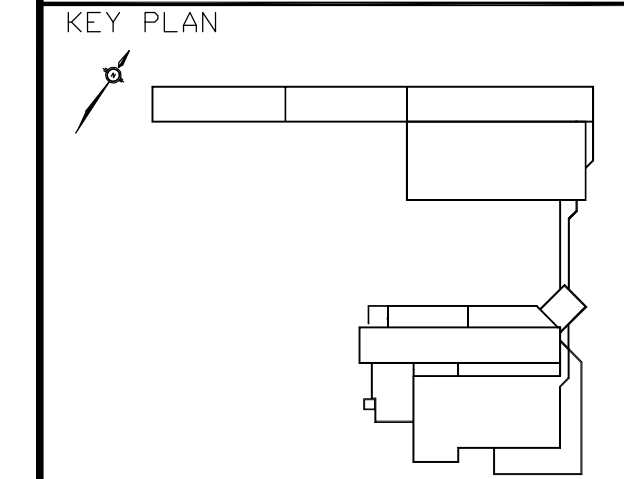
ITEMS OF WORK

1. REMOVE AND DISPOSE OF EXISTING ROOFING MEMBRANE SYSTEM INCLUDING CONCRETE PAVERS, STONE BALLAST, FILTER FABRIC, INSULATION, METAL FLASHINGS, WOOD CURBS AND ALL RELATED ACCESSORIES (AS DETAILED ON THE DRAWINGS) FOR THE ENTIRE ROOF AREA TO LIMITS SHOWN.
2. CONSTRUCT NEW PRESSURE TREATED WOOD CURBS AT ALL EXPANSION JOINTS.
3. CONSTRUCT NEW PRESSURE TREATED WOOD CURBS AT ALL PARAPETS.
4. ALL MECHANICAL UNITS TO BE LIFTED PRIOR TO INSTALL ROOFING SYSTEM AND METAL FLASHINGS AT SUPPORT CURBS. COORDINATE THIS WORK WITH UTILITIES (AS REQUIRED).
5. NEW CONVENTIONAL MODIFIED BITUMEN ROOFING SYSTEM TO BE SUPPLIED AND INSTALLED THROUGHOUT THE ROOF AREA SHOWN.
6. NEW PREFABRICATED VENT AND EXHAUST PIPE FLASHINGS TO BE SUPPLIED AND INSTALLED AT ALL EXISTING LOCATION UNLESS NOTED OTHERWISE.
7. NEW PREFINISHED METAL FLASHING TO BE SUPPLIED AND INSTALLED AT ALL PARAPET CAPS, WALL AND CURB LOCATIONS (AS DETAILED ON DRAWINGS).
8. NEW RETRO-FIT DRAINS TO BE SUPPLIED AND INSTALLED AT ALL ROOF DRAIN LOCATIONS. SIZE OF NEW DRAINS TO MATCH EXISTING PIPING SUPPLY AND INSTALL ALL NECESSARY PIPING TO ACCOMMODATE NEW DRAIN INSTALLATION.
9. EXISTING EXPOSED ACCESS HATCH COVERS AND ACCESS LADDERS TO BE PAINTED (AS INDICATED, COLOUR AS SPECIFIED BY OWNER).
10. STRAIGHT EXHAUST VENTS TO BE PROVIDED WITH METAL CAPS.
11. REMOVE EXISTING METAL SIDING AS REQUIRED TO FACILITATE VAPOUR BARRIER AND ROOFING MEMBRANE CONNECTIONS TO EXISTING MEMBERS. REPLACE METAL SIDING AFTER ROOF MEMBRANE HAS BEEN COMPLETED.
12. ICE TANK ROOF: DUE TO THE USE OF THE BUILDING SPACE BELOW, ALL AREAS OF CONSTRUCTION MUST BE FULLY REINSTATED WITH INSULATION BY THE END OF EACH WORK DAY.

LIST OF DRAWINGS

- BE-01 ROOF PLAN & GENERAL NOTES
- BE-02 ROOF PLAN PHASE 1
- BE-03 ROOF PLAN PHASE 2 (NOT INCLUDED IN THIS PHASE)
- BE-04 ROOF PLAN PHASE 3 (NOT INCLUDED IN THIS PHASE)
- BE-05 ROOF PLAN PHASE 4 (NOT INCLUDED IN THIS PHASE)
- BE-06 ROOF PLAN PHASE 5 (NOT INCLUDED IN THIS PHASE)
- BE-07 PHASE 1 DETAILS SHEET 1
- BE-08 PHASE 1 DETAILS SHEET 2
- BE-09 PHASE 2 DETAILS SHEET 1 (NOT INCLUDED IN THIS PHASE)
- BE-10 PHASE 2 DETAILS SHEET 2 (NOT INCLUDED IN THIS PHASE)
- BE-11 PHASE 2 DETAILS SHEET 3 (NOT INCLUDED IN THIS PHASE)
- BE-12 PHASE 3 DETAILS SHEET 1 (NOT INCLUDED IN THIS PHASE)
- BE-13 PHASE 4 DETAILS SHEET 1 (NOT INCLUDED IN THIS PHASE)
- BE-14 PHASE 5 DETAILS SHEET 1 (NOT INCLUDED IN THIS PHASE)
- BE-15 TYPICAL DETAILS SHEET 1
- BE-16 TYPICAL DETAILS SHEET 2

DO NOT SCALE DRAWING. DIMENSIONS TO BE VERIFIED ON SITE. DRAWING TO BE READ IN CONJUNCTION WITH WRITTEN SPECIFICATION



CONTRACT PHASES

- PHASE 1
- PHASE 2 (NOT INCLUDED IN CONTRACT)
- PHASE 3 (NOT INCLUDED IN CONTRACT)
- PHASE 4 (NOT INCLUDED IN CONTRACT)
- PHASE 5 (NOT INCLUDED IN CONTRACT)

ENGINEER'S STAMP

2	ISSUED FOR TENDER	07/23/13
1	ISSUED FOR CLIENT REVIEW 95%	05/04/12
ISSUE	DESCRIPTION	DATE (DD/MM/YY)

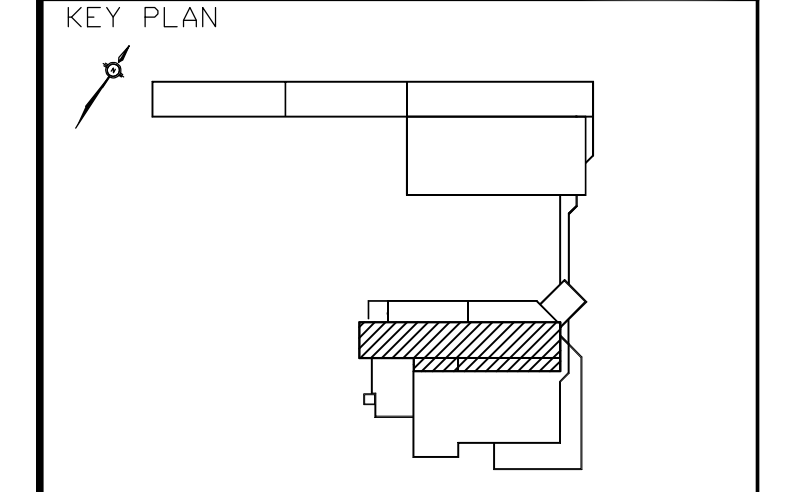
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INSTITUTE OF OCEAN TECHNOLOGY
ST JOHN'S, NEWFOUNDLAND

**ROOF REPLACEMENT
PHASE 1, 2, 3, 4 and 5
ROOF PLAN & GENERAL NOTES**

DATE: MARCH 2012	DRAWING No:
SCALE: AS SHOWN	BE-01
DESIGN: PTC/EL	PROJECT No:
DRAWN: EL	2123161.00
REVIEWED: DN/SDT	

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EXISTING ROOFING SYSTEM
 PHASE 1 ROOF AREA
 75-100mm (APPROX DEPTH) BALLAST
 FILTER FABRIC
 75mm RIGID INSULATION
 13mm FIBRE BOARD (INSULPAVE AREAS ONLY)
 INSULPAVE (SELECT AREAS - SEE DRAWINGS)
 4-PLYS FELT MEMBRANE VAPOUR BARRIER
 PLYWOOD DECK COVER

NEW ROOFING SYSTEM
 PHASE 1 ROOF AREA
 MODIFIED BITUMEN CAP SHEET
 MODIFIED BITUMEN BASE SHEET
 ASPHALT RECOVERY BOARD
 2 LAYERS 50mm RIGID INSULATION
 MODIFIED BITUMEN VAPOUR BARRIER
 EXISTING 4-PLYS FELT MEMBRANE VAPOUR BARRIER
 EXISTING PLYWOOD DECK COVER

EXISTING ICE TANK ROOFING SYSTEM
 PHASE 1 ROOF AREA
 CONCRETE PAVERS
 EPDM ROOF MEMBRANE
 250mm XPS INSULATION (3 LAYERS)
 EPDM ROOF MEMBRANE
 POLYETHYLENE AIR VAPOUR BARRIER
 EXISTING PLYWOOD DECK
 EXISTING METAL DECK

NEW ICE TANK ROOFING SYSTEM
 PHASE 1 ROOF AREA
 MODIFIED BITUMEN CAP SHEET
 MODIFIED BITUMEN BASE SHEET
 ASPHALT RECOVERY BOARD
 NEW POLYISOCYANURATE INSULATION, MIN R50
 NEW SELF ADHERED VAPOUR BARRIER
 EXISTING PLYWOOD DECK
 EXISTING METAL DECK

ENGINEER'S STAMP

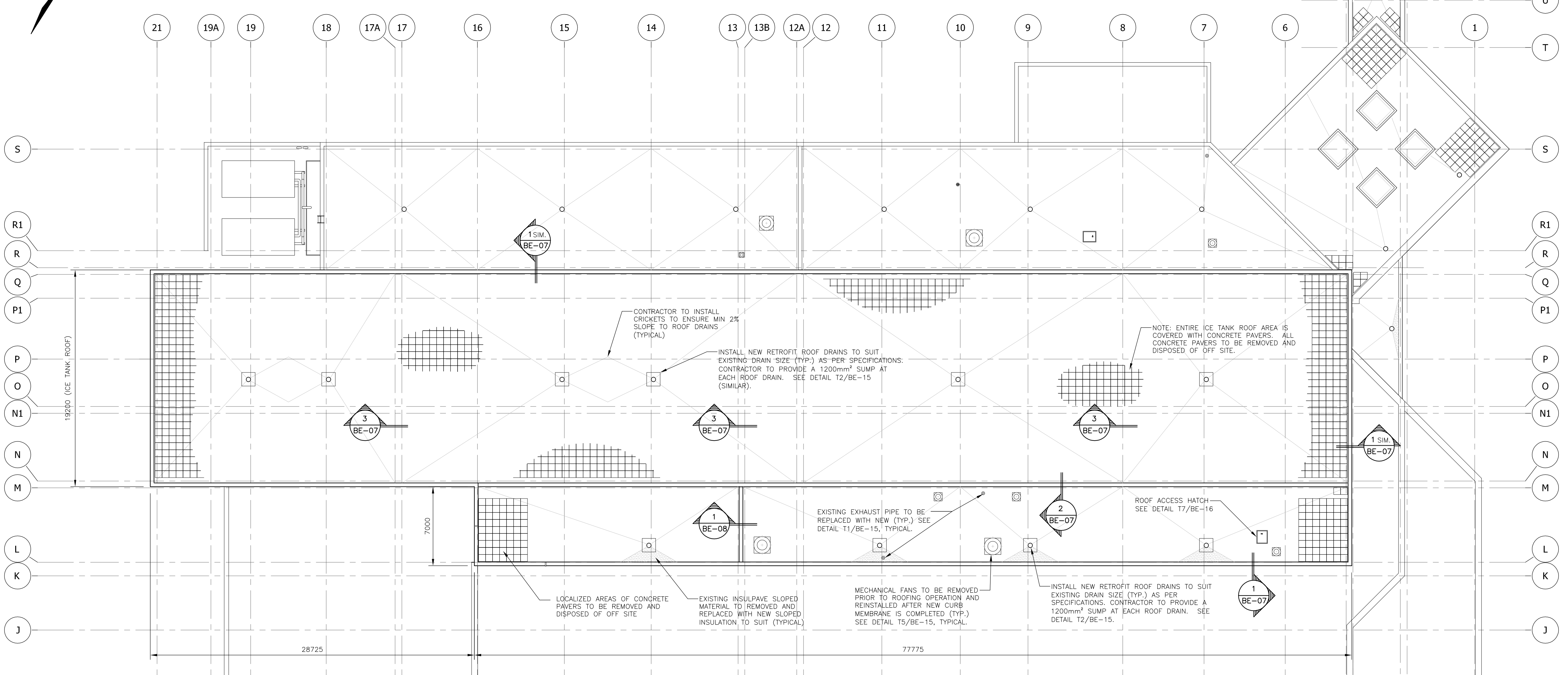
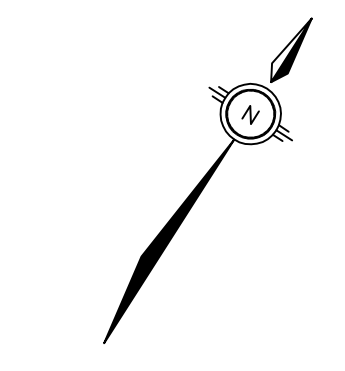
2	ISSUED FOR TENDER	07/23/13
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**ROOF REPLACEMENT
 PHASE 1
 ROOF PLAN**

DATE: MARCH 2012	DRAWING No:
SCALE: AS SHOWN	BE-02
DESIGN: PTC/EL	
DRAWN: EL	PROJECT No:
REVIEWED: DN/SDT	2123161.00

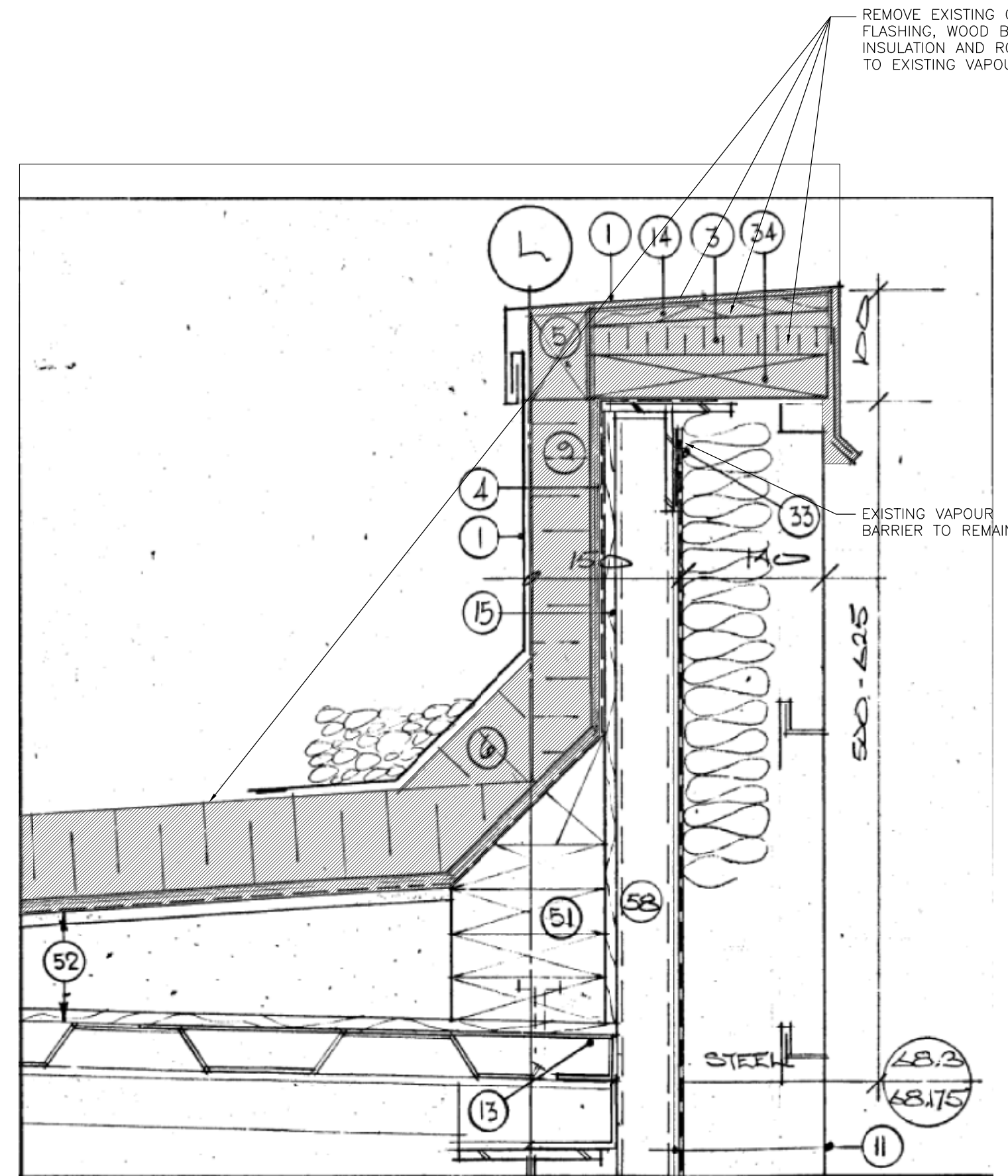
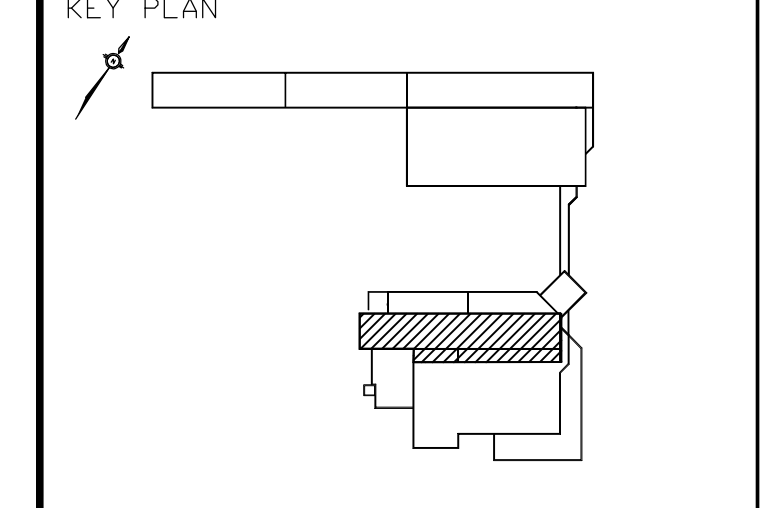


ROOF PLAN PHASE 1
 1:200

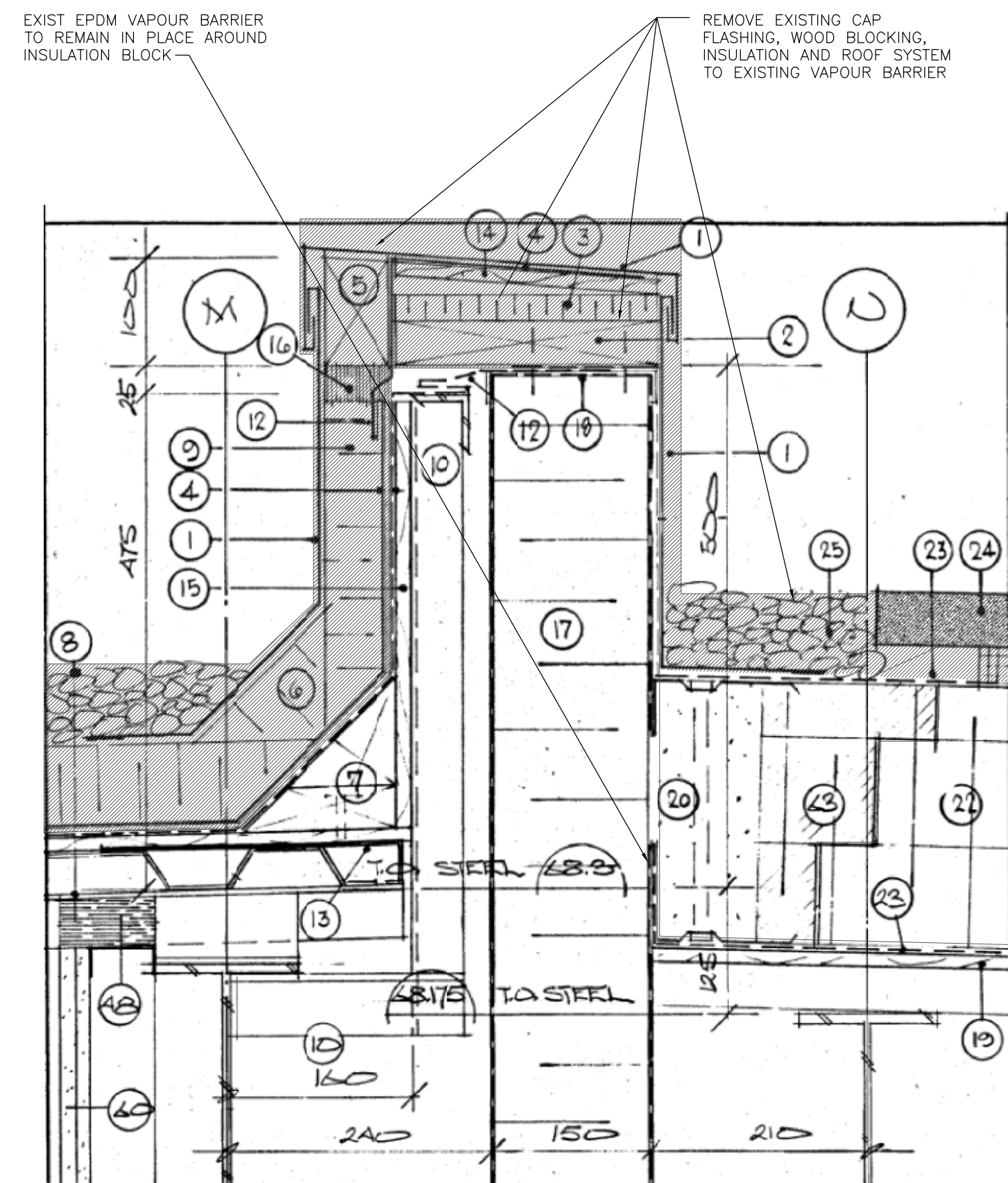
- LEGEND**
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 - GENERATOR EXHAUST PIPE
 - ◻ ACCESS HATCH
 - SLOPE LINES

NOTE: ICE TANK ROOF: DUE TO THE USE OF THE BUILDING SPACE BELOW, ALL AREAS OF CONSTRUCTION MUST BE FULLY REINSTATED WITH INSULATION BY THE END OF EACH WORK DAY.

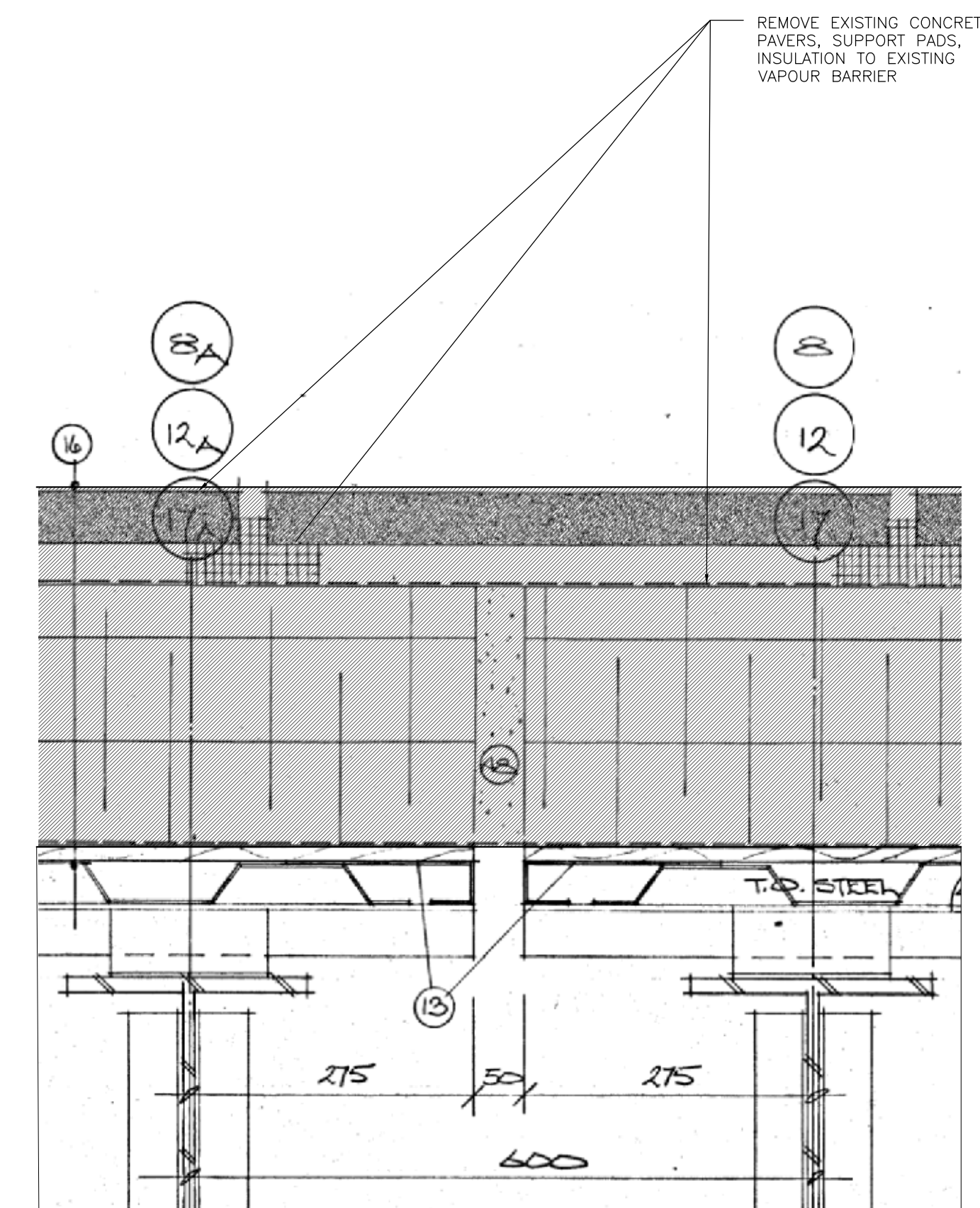
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1 EXISTING PARAPET
BE-02 1:5

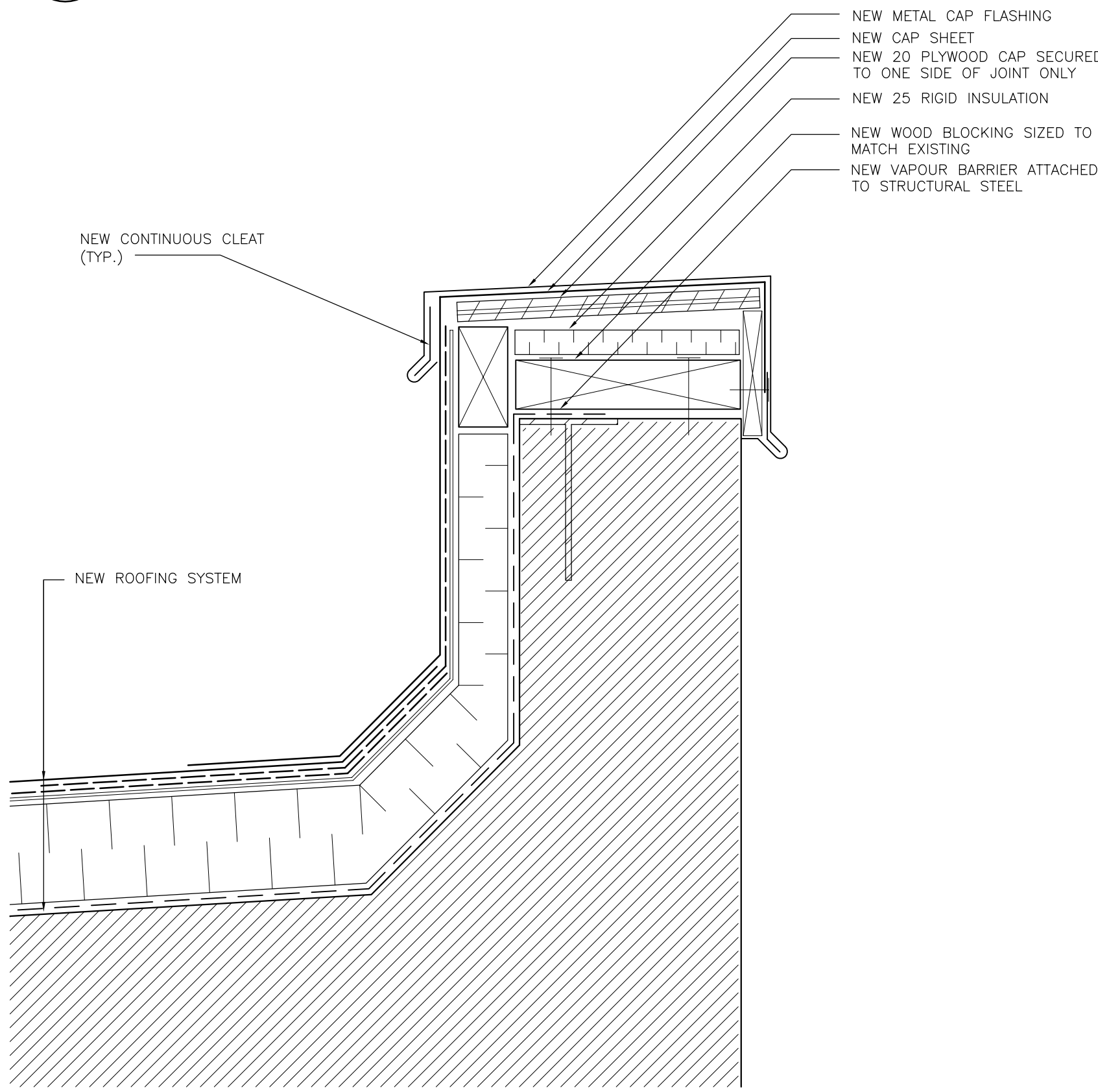


2 EXISTING CURB
BE-02 1:5

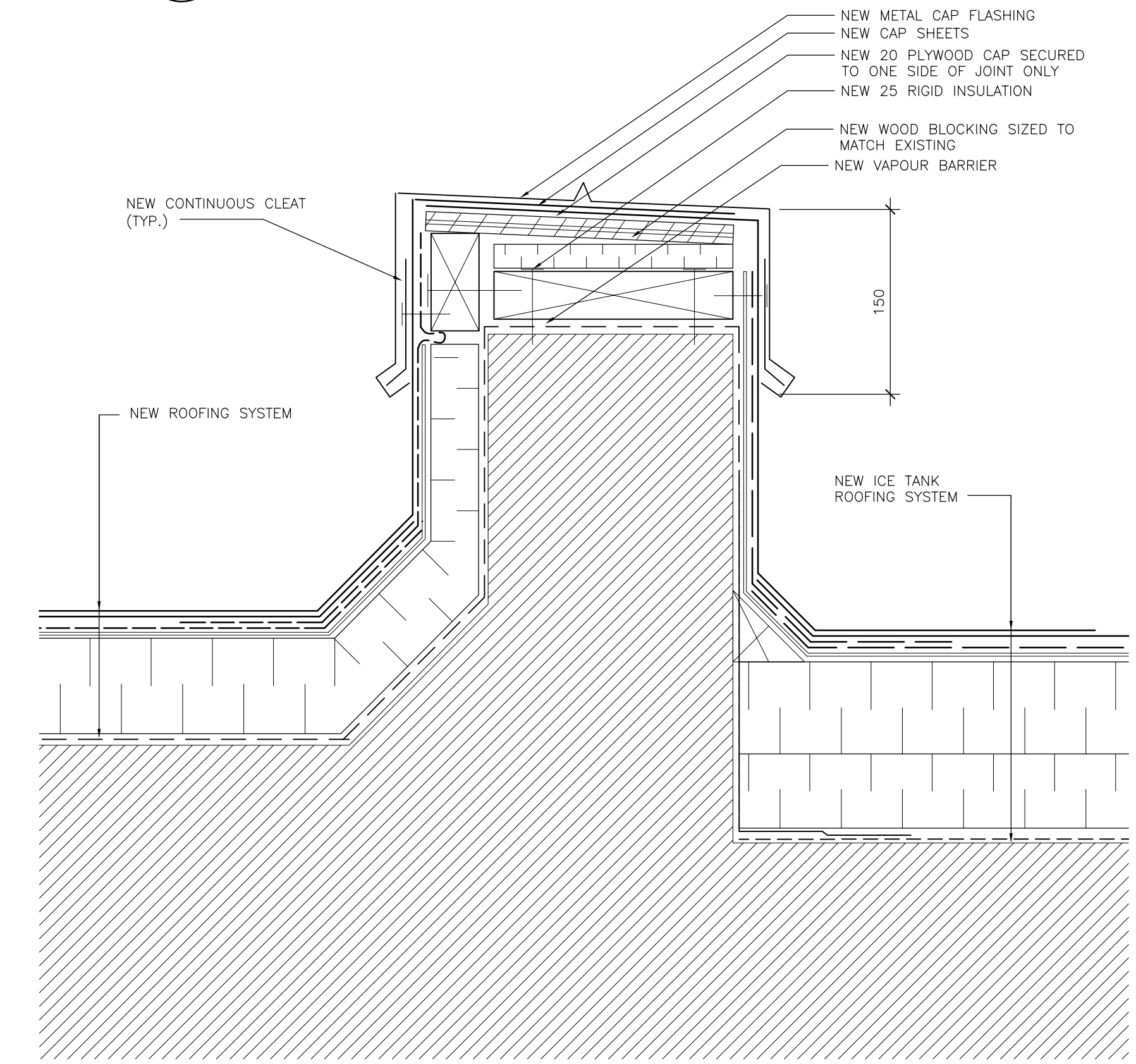


3 EXISTING EXPANSION JOINT
BE-02 1:5

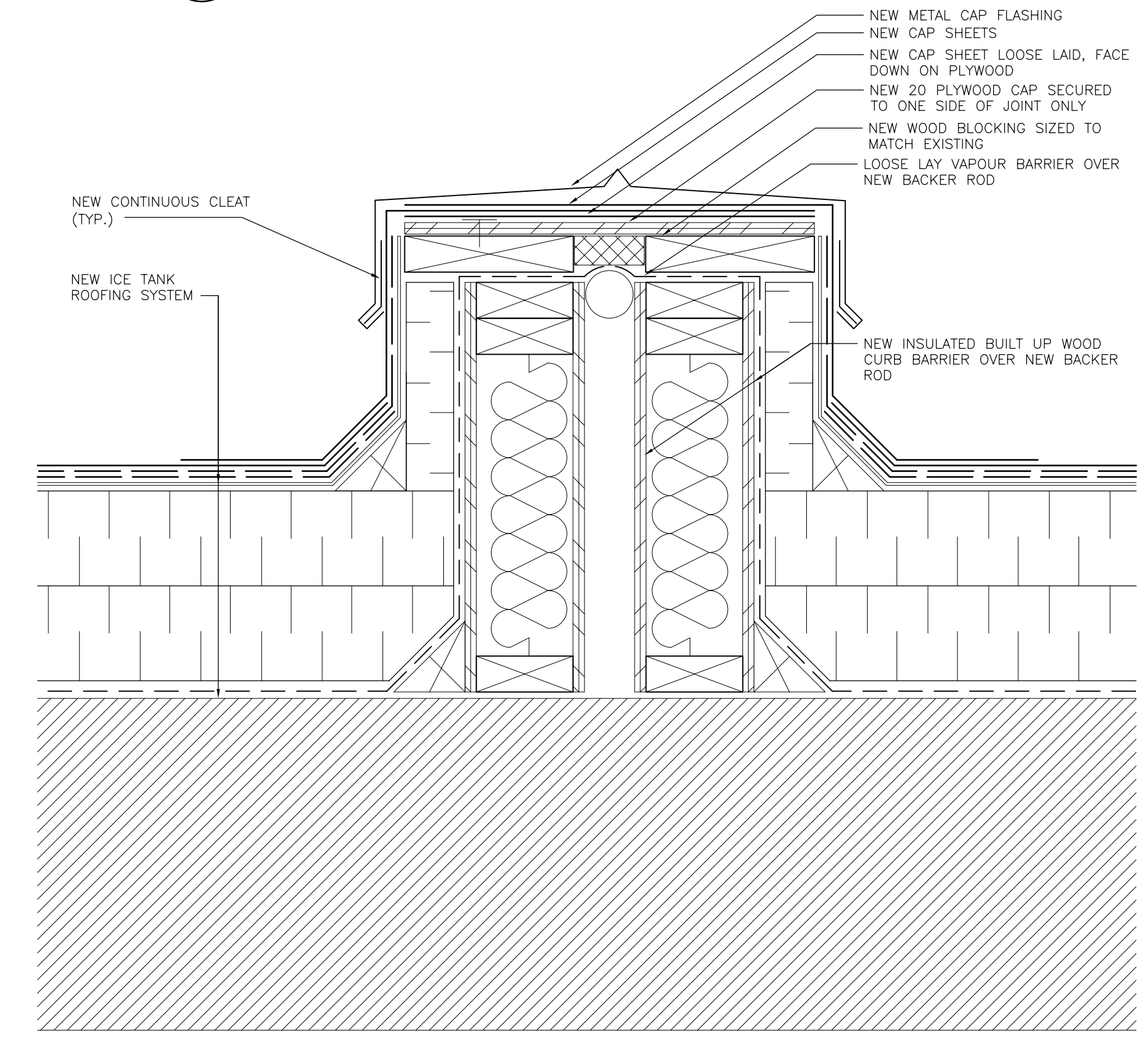
- EXISTING ROOFING SYSTEM**
PHASE 1 ROOF AREA
75-100mm (APPROX DEPTH) BALLAST
FILTER FABRIC
75mm RIGID INSULATION
13mm FIBRE BOARD (INSULPAVE AREAS ONLY)
INSULPAVE (SELECT AREAS - SEE DRAWINGS)
4-PLYS FELT MEMBRANE VAPOUR BARRIER
PLYWOOD DECK COVER
- NEW ROOFING SYSTEM**
PHASE 1 ROOF AREA
MODIFIED BITUMEN CAP SHEET
MODIFIED BITUMEN BASE SHEET
ASPHALT RECOVERY BOARD
2 LAYERS 50mm RIGID INSULATION
MODIFIED BITUMEN VAPOUR BARRIER
EXISTING 4-PLYS FELT MEMBRANE VAPOUR BARRIER
EXISTING PLYWOOD DECK COVER
- EXISTING ICE TANK ROOFING SYSTEM**
PHASE 1 ROOF AREA
CONCRETE PAVERS
EPDM ROOF MEMBRANE
250mm XPS INSULATION (3 LAYERS)
EPDM ROOF MEMBRANE
POLYETHYLENE AIR VAPOUR BARRIER
EXISTING PLYWOOD DECK
EXISTING METAL DECK
- NEW ICE TANK ROOFING SYSTEM**
PHASE 1 ROOF AREA
MODIFIED BITUMEN CAP SHEET
MODIFIED BITUMEN BASE SHEET
ASPHALT RECOVERY BOARD
NEW POLYISOCYANURATE INSULATION, MIN R50
NEW SELF ADHERED VAPOUR BARRIER
EXISTING PLYWOOD DECK
EXISTING METAL DECK



1 NEW PARAPET
BE-02 1:5



2 NEW CURB
BE-02 1:5



3 NEW EXPANSION JOINT
BE-02 1:5

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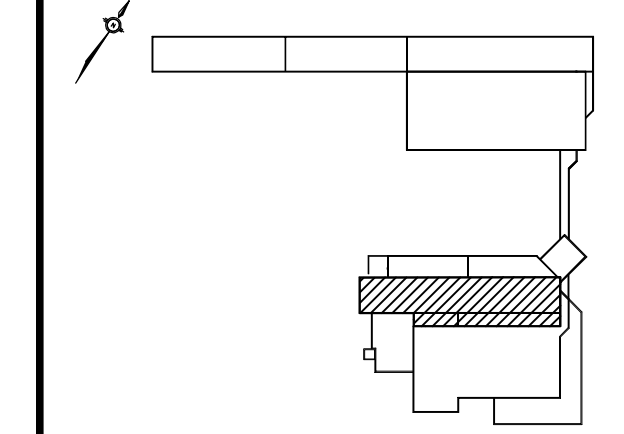
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**ROOF REPLACEMENT
PHASE 1
DETAILS**

DATE: MARCH 2012	DRAWING No:
SCALE: AS SHOWN	BE-07
DESIGN: PTC/EL/GML	
DRAWN: EL	PROJECT No:
REVIEWED: DN/SDT	2123161.00

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KEY PLAN



EXISTING ROOFING SYSTEM

PHASE 1 ROOF AREA
 75-100mm (APPROX DEPTH) BALLAST
 FILTER FABRIC
 75mm RIGID INSULATION
 13mm FIBRE BOARD (INSULPAVE AREAS ONLY)
 INSULPAVE (SELECT AREAS - SEE DRAWINGS)
 4-PLYS FELT MEMBRANE VAPOUR BARRIER
 PLYWOOD DECK COVER

NEW ROOFING SYSTEM

PHASE 1 ROOF AREA
 MODIFIED BITUMEN CAP SHEET
 MODIFIED BITUMEN BASE SHEET
 ASPHALT RECOVERY BOARD
 2 LAYERS 50mm RIGID INSULATION
 MODIFIED BITUMEN VAPOUR BARRIER
 EXISTING 4-PLYS FELT MEMBRANE VAPOUR BARRIER
 EXISTING PLYWOOD DECK COVER

EXISTING ICE TANK ROOFING SYSTEM

PHASE 1 ROOF AREA
 CONCRETE PAVERS
 EPDM ROOF MEMBRANE
 250mm XPS INSULATION (3 LAYERS)
 EPDM ROOF MEMBRANE
 POLYETHYLENE AIR VAPOUR BARRIER
 EXISTING PLYWOOD DECK
 EXISTING METAL DECK

NEW ICE TANK ROOFING SYSTEM

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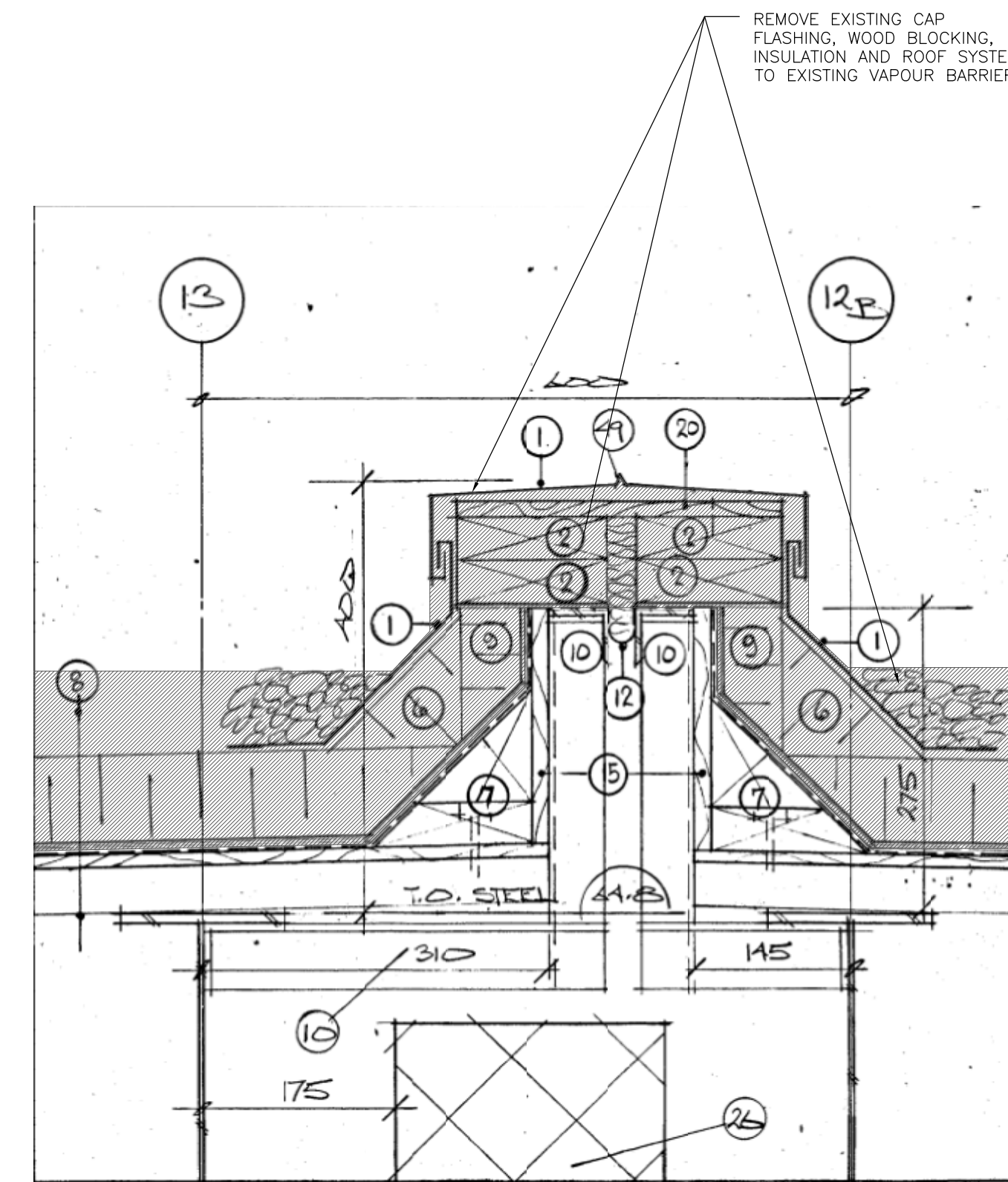
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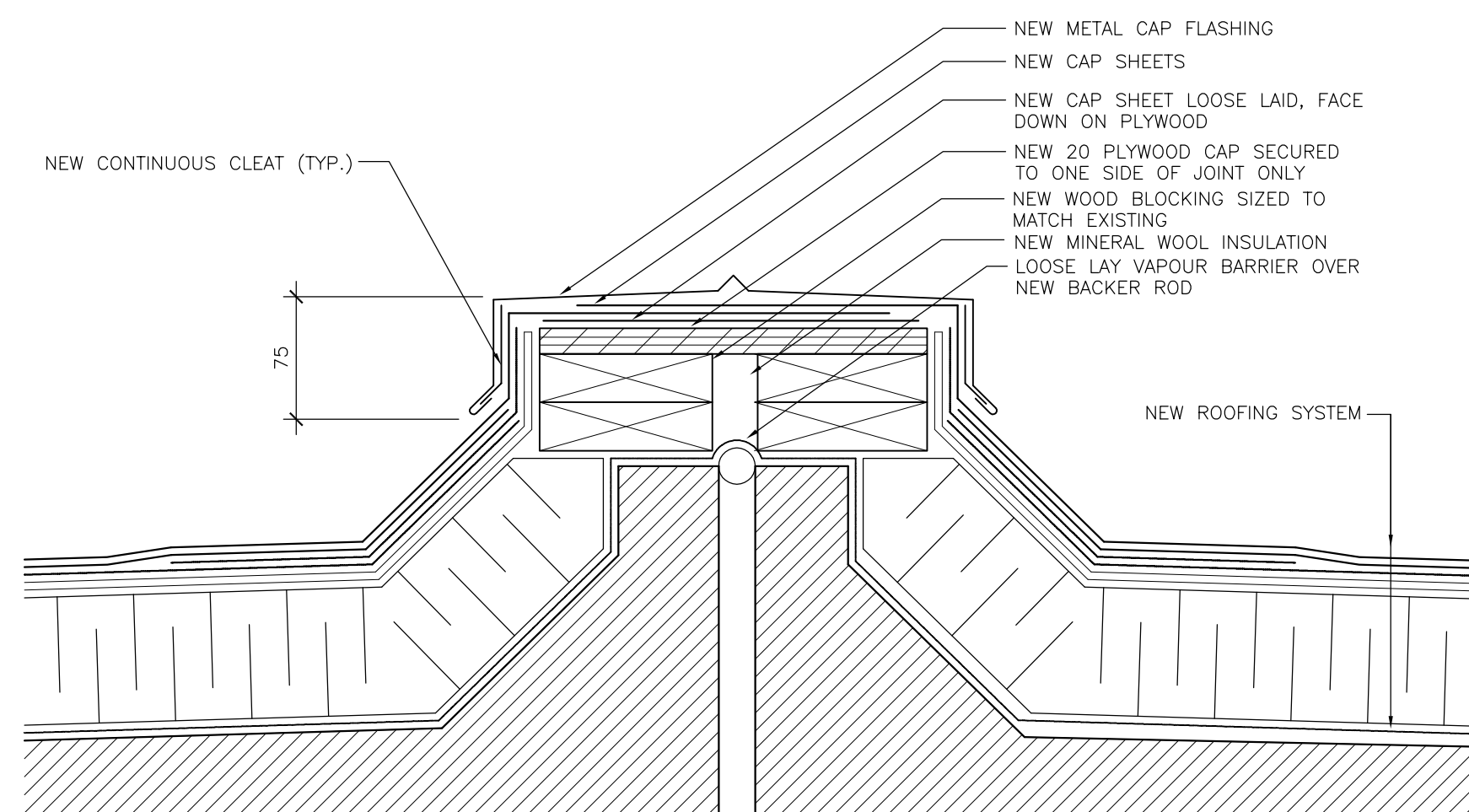
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ROOF REPLACEMENT
 PHASE 1
 DETAILS

DATE: MARCH 2012	DRAWING No:
SCALE: AS SHOWN	BE-08
DESIGN: PTC/EL/GML	
DRAWN: EL	PROJECT No:
REVIEWED: DN/SDT	2123161.00

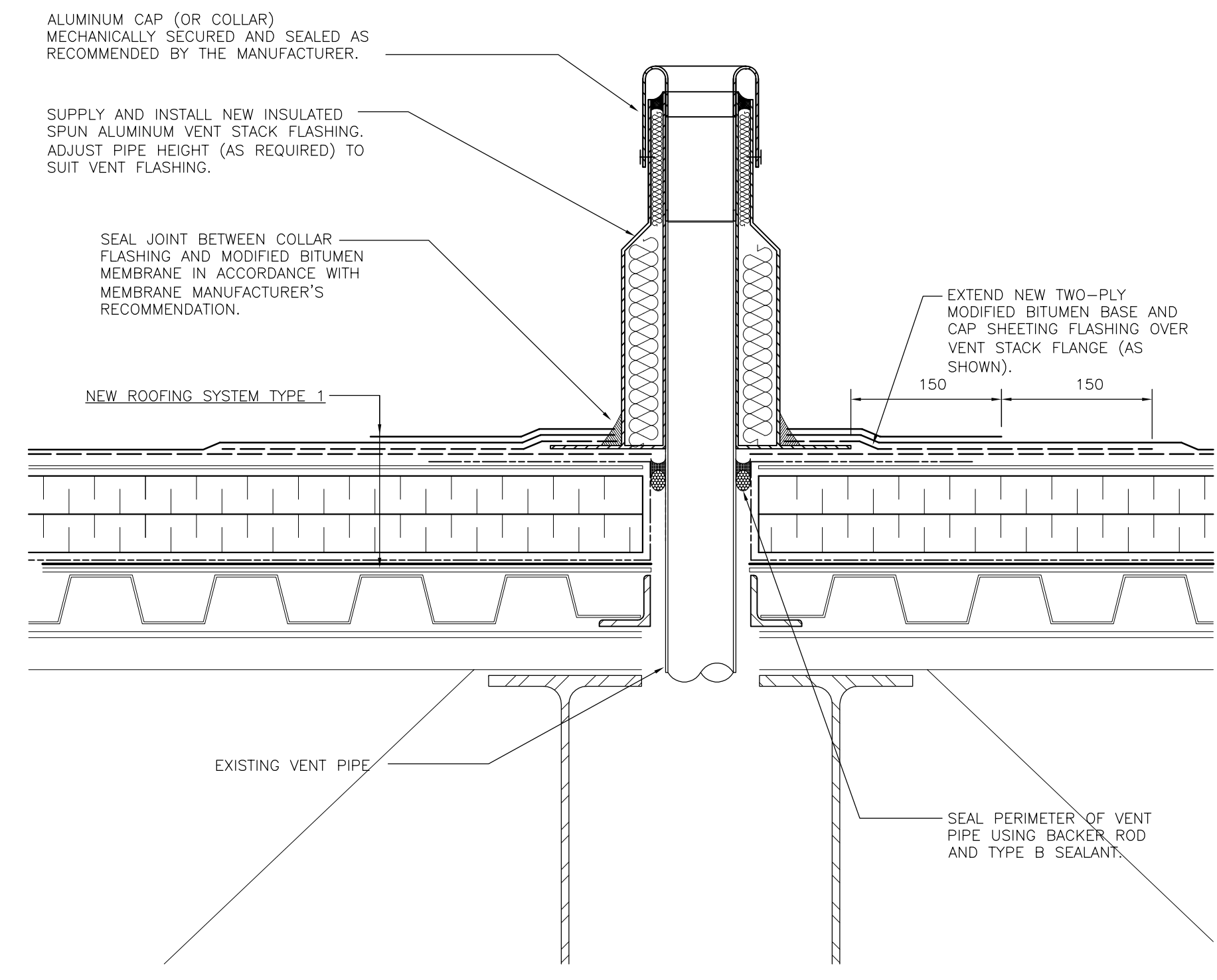
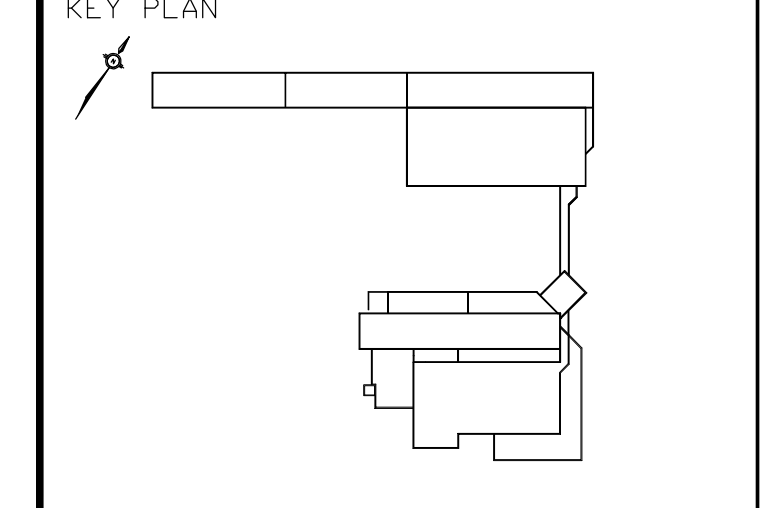


1 EXISTING EXPANSION JOINT
 BE-02 1:5

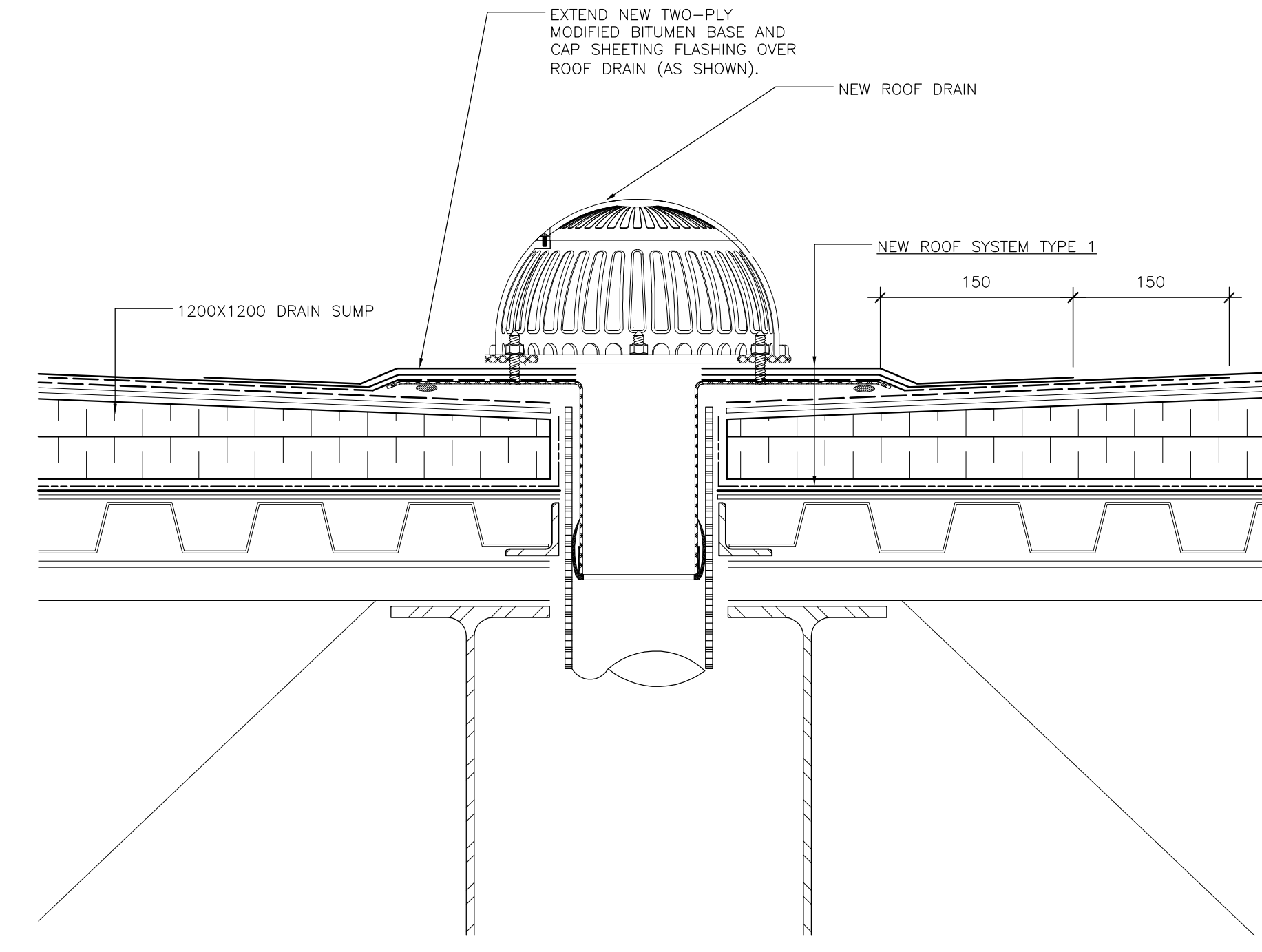


1 NEW EXPANSION JOINT
 BE-02 1:5

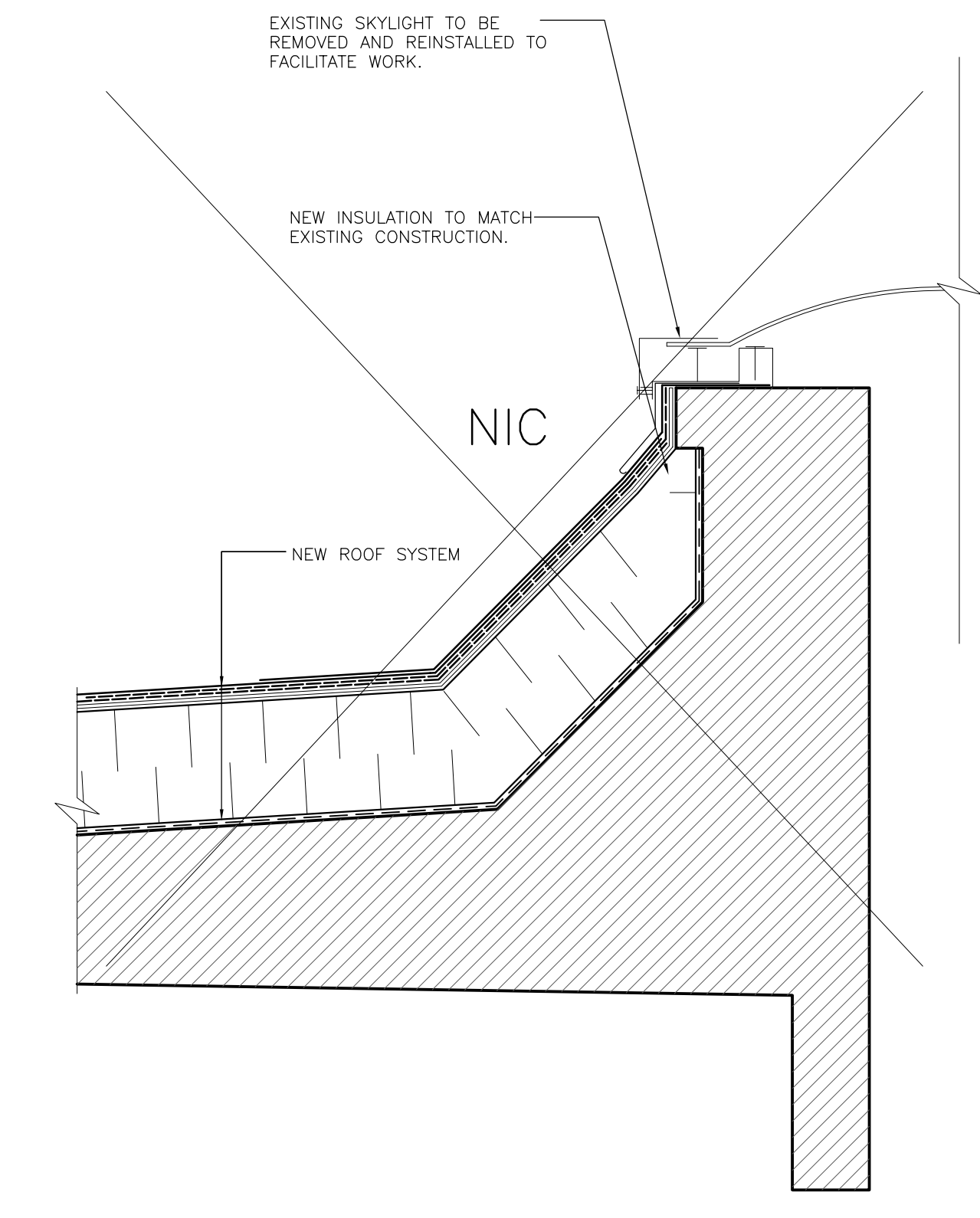
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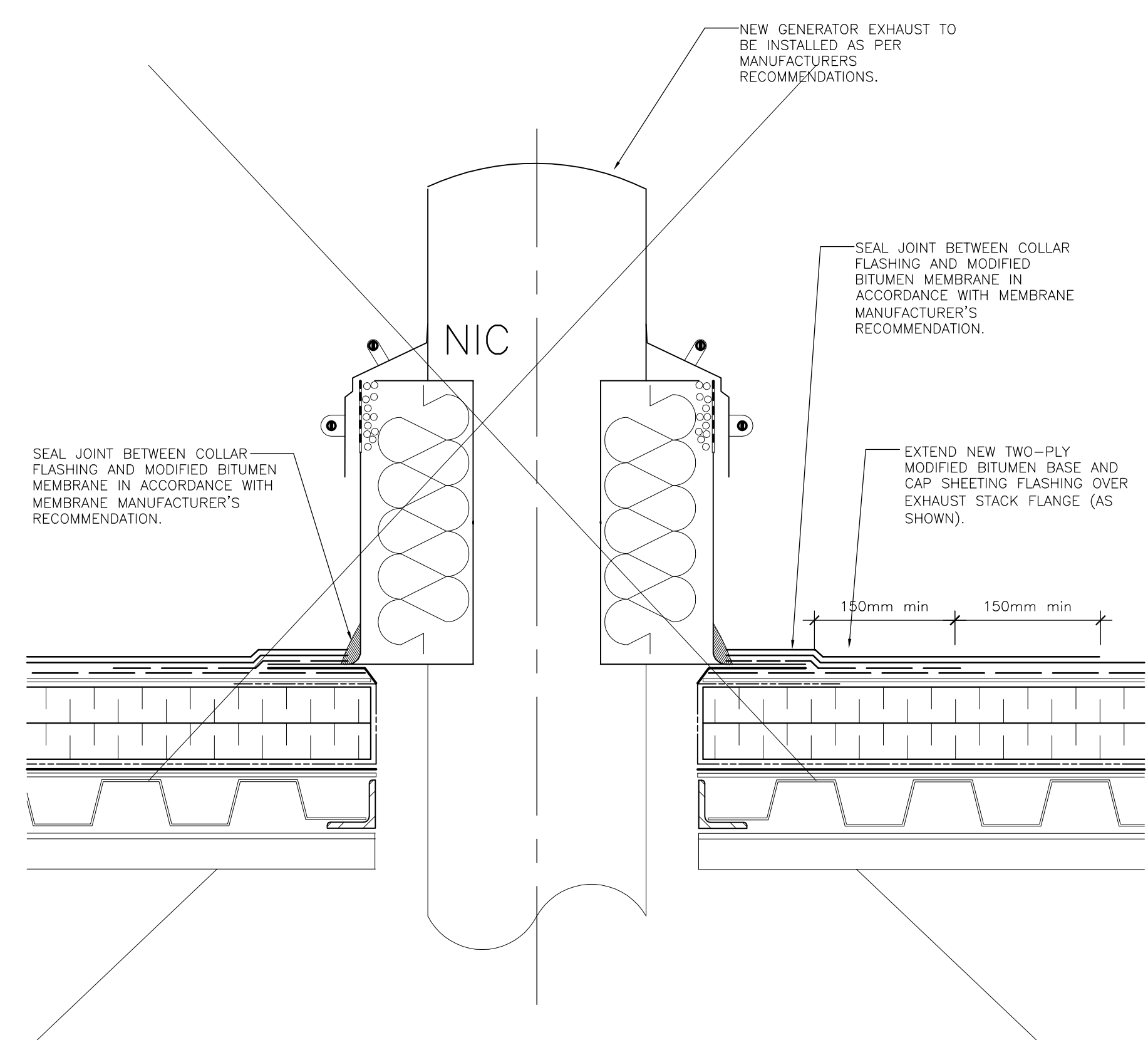
T1 NEW EXHAUST PIPE
BE-15 1:5



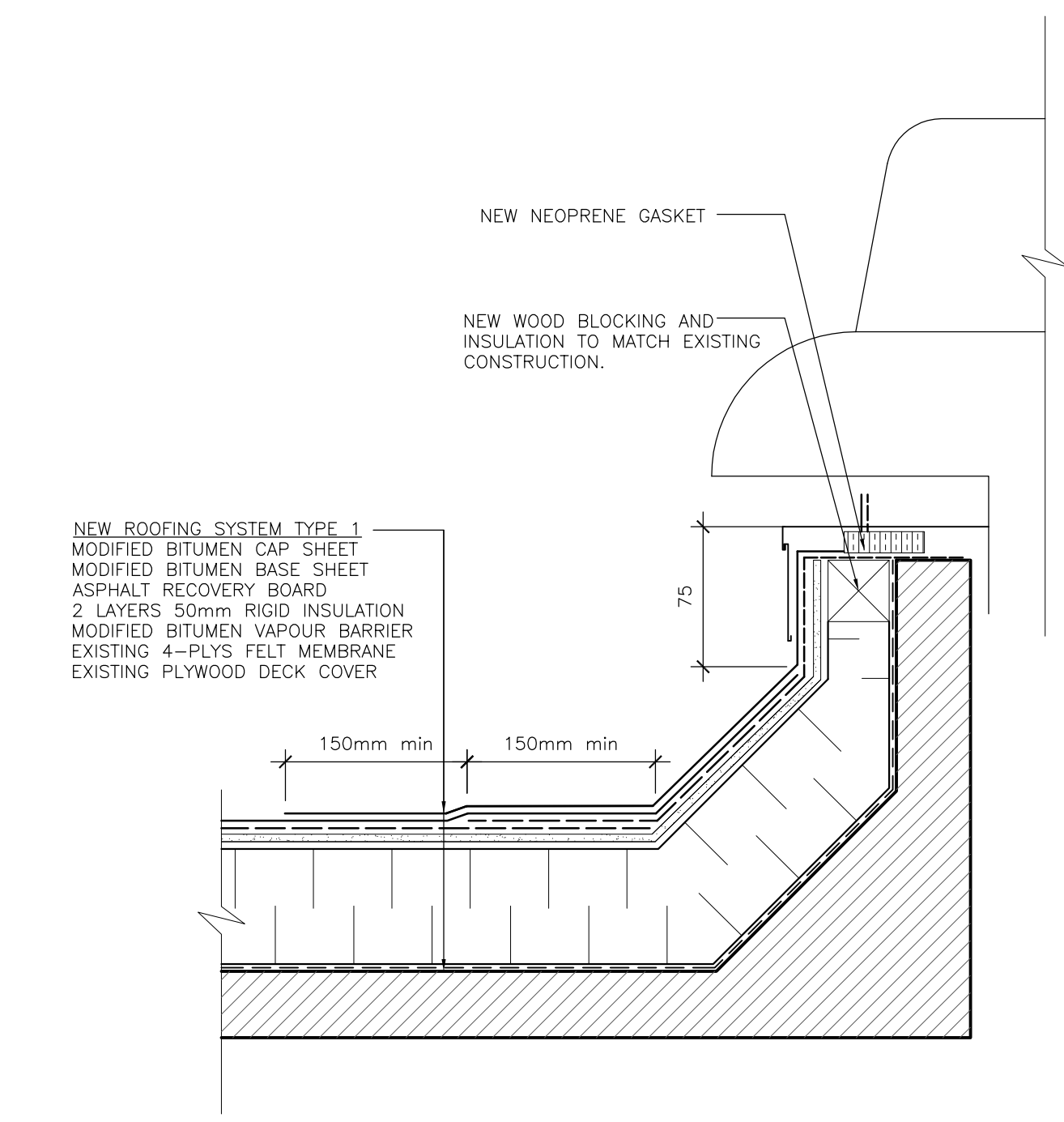
T2 NEW ROOF DRAIN
BE-15 1:5



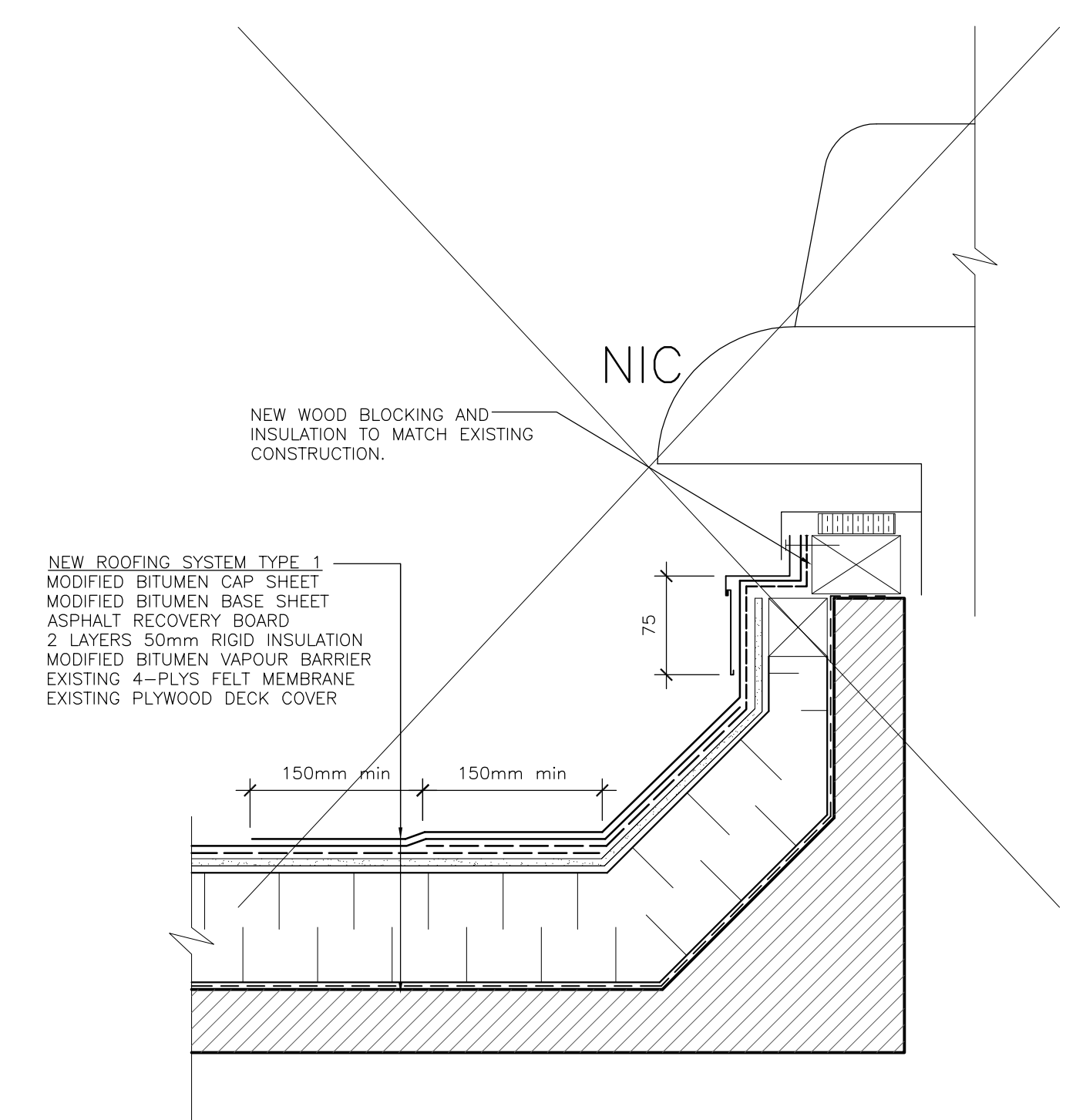
T3 NEW SKYLIGHT CURB
BE-15 1:5



T4 NEW EXHAUST VENT
BE-15 1:5



T5 PHASE 1 MECHANICAL CURB
BE-15 1:5



T6 PHASE 3, 4 AND 5 MECHANICAL CURB
BE-15 1:5

- EXISTING ROOFING SYSTEM**
PHASE 1 ROOF AREA
75-100mm (APPROX DEPTH) BALLAST
FILTER FABRIC
75mm RIGID INSULATION
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4-PLYS FELT MEMBRANE VAPOUR BARRIER
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ENGINEER'S STAMP

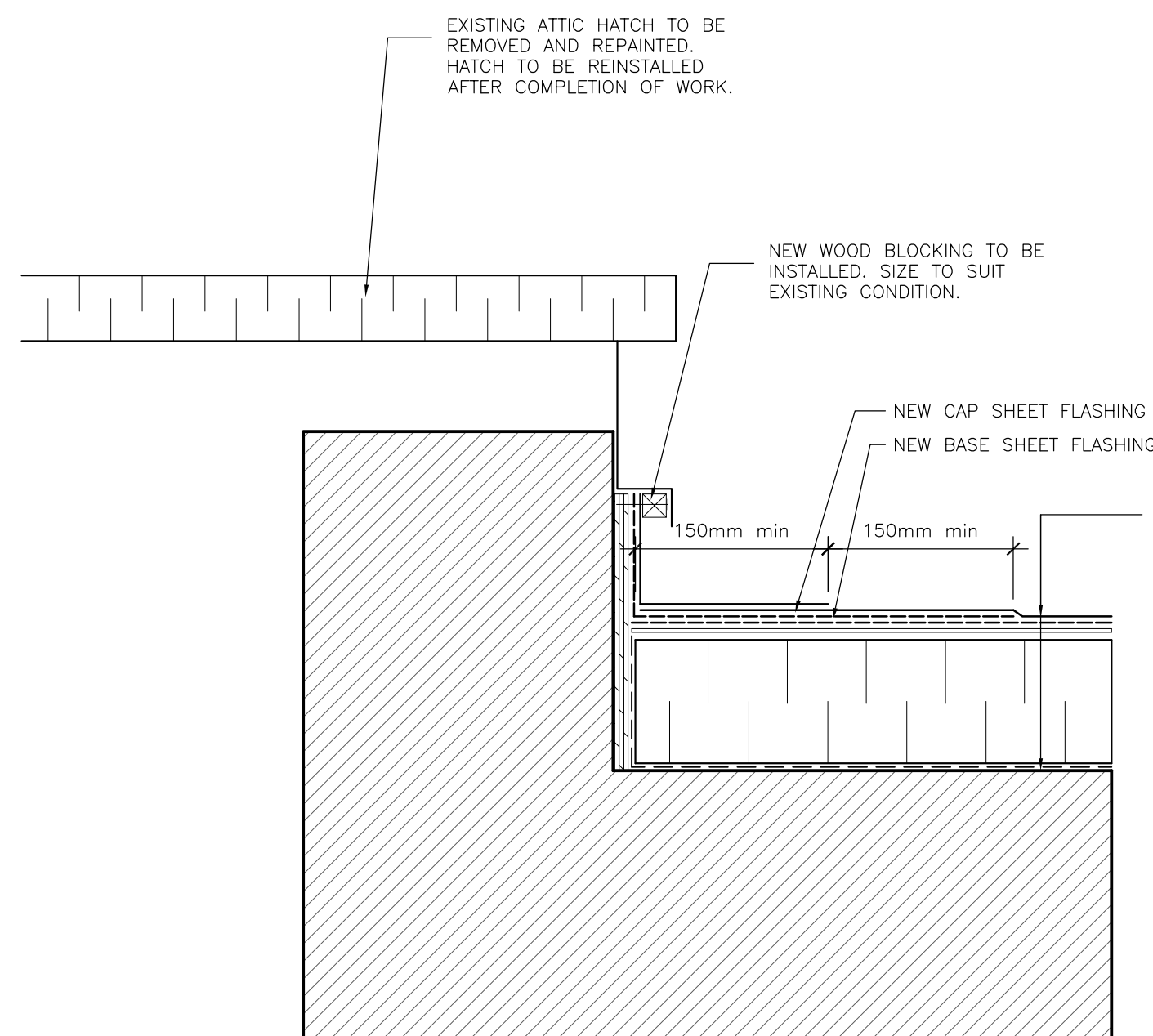
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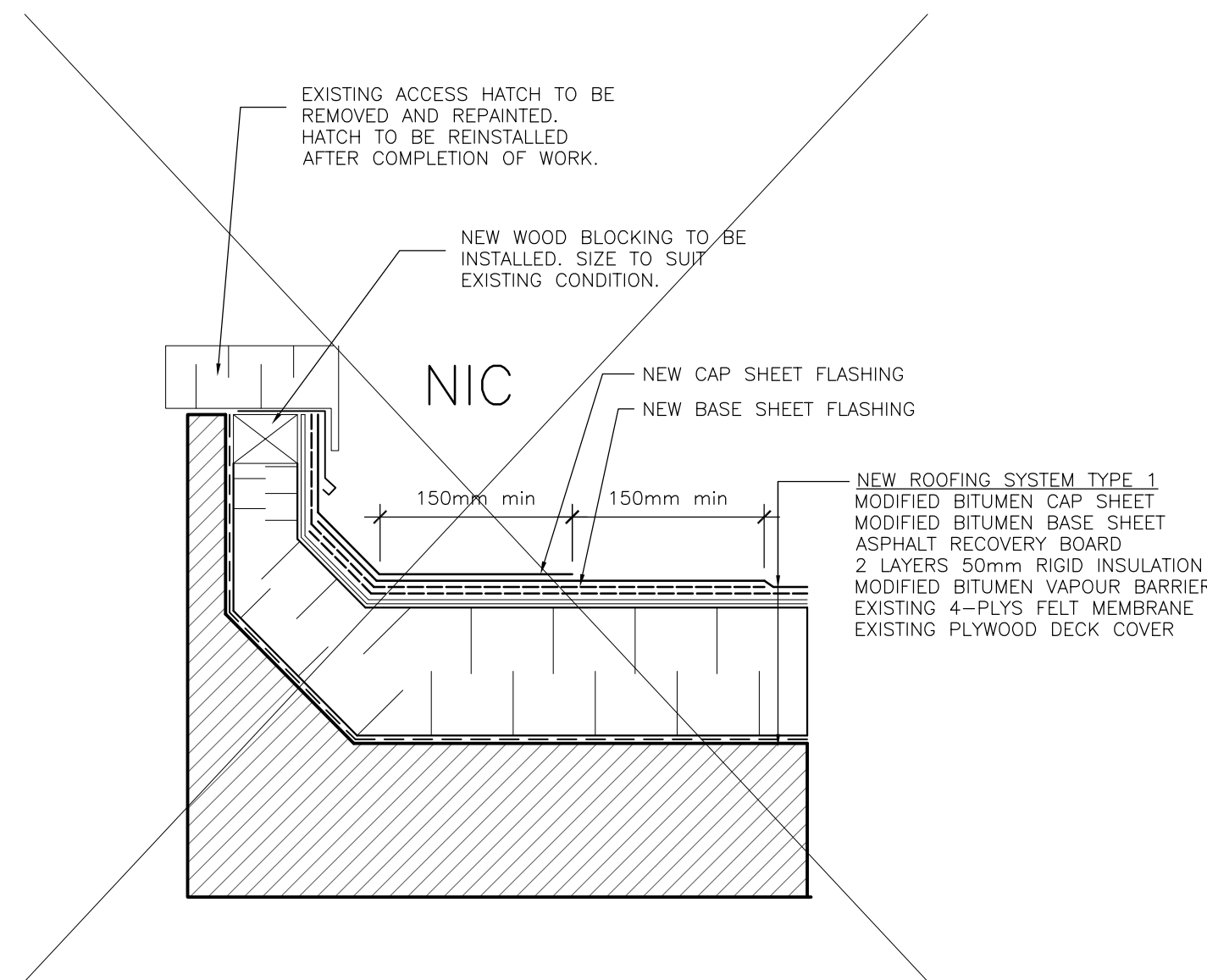
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INSTITUTE OF OCEAN TECHNOLOGY
ST JOHN'S, NEWFOUNDLAND

**ROOF REPLACEMENT
PHASE 1,2,3,4 AND 5
TYPICAL DETAILS**

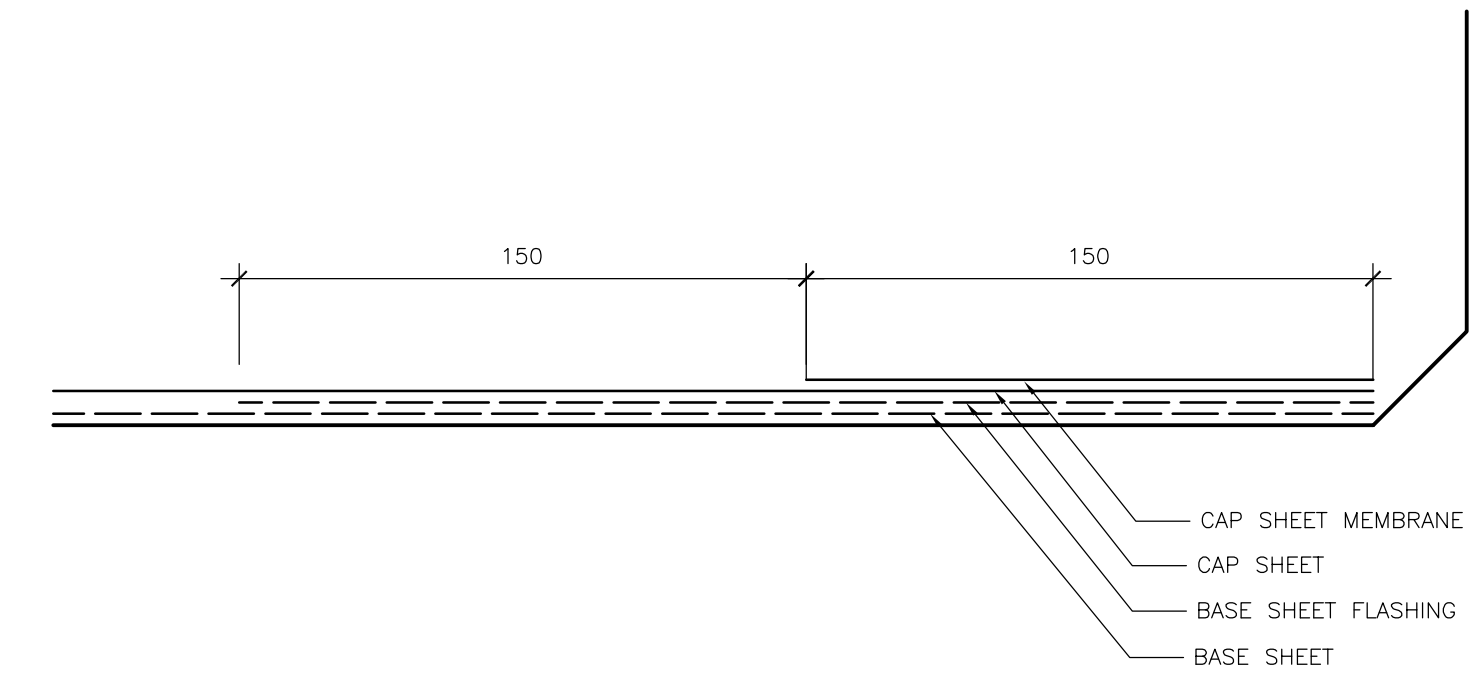
DATE: MARCH 2012	DRAWING No:
SCALE: AS SHOWN	BE-15
DESIGN: PTC/EL/GML	PROJECT No:
DRAWN: EL	2123161.00
REVIEWED: DN/SDT	



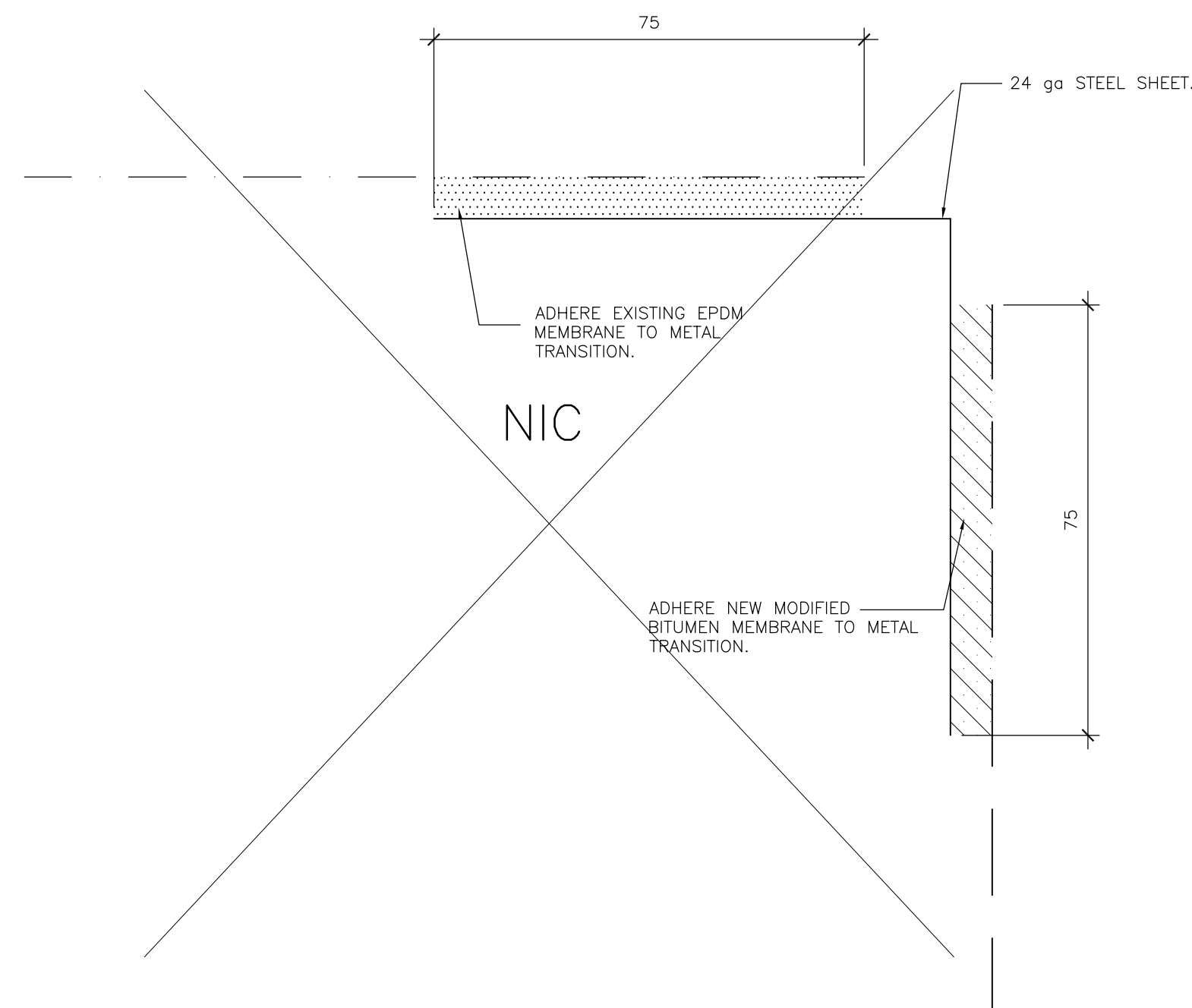
T7 PHASE 1 ROOF ACCESS HATCH CURB
BE-16 1:5



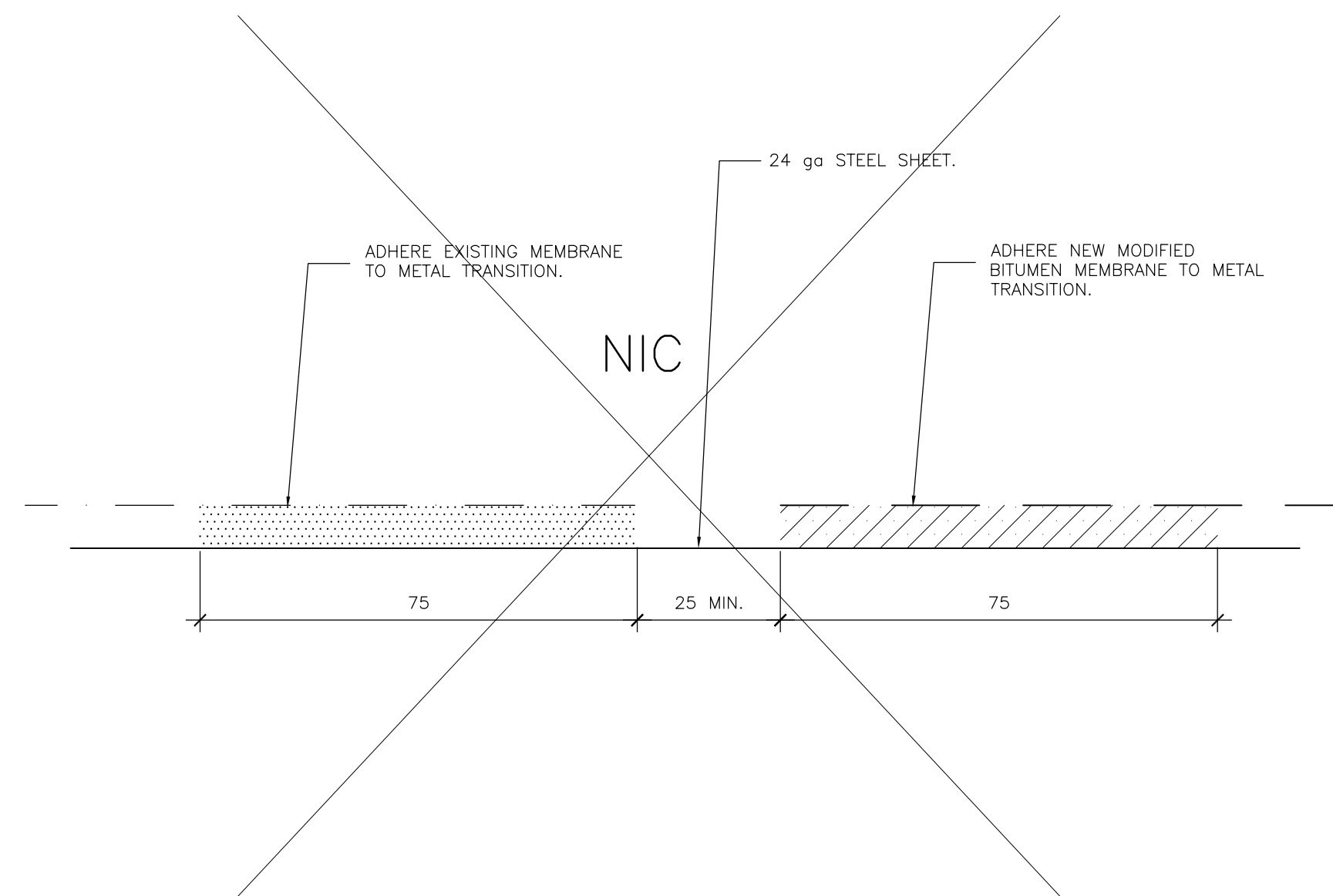
T8 PHASE 3, 4 AND 5 ROOF HATCH CURB
BE-16 1:5



T9 TYPICAL MEMBRANE LAPPING AT CURBS
BE-16 1:5

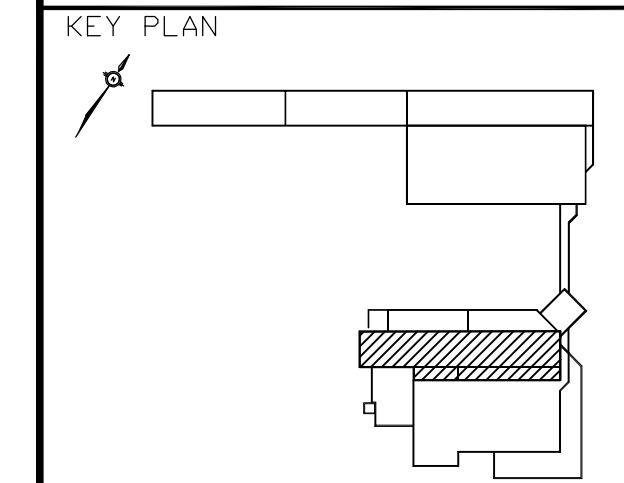


T10 TYPICAL TRANSITION DETAIL AT EPDM MEMBRANE
BE-16 SCALE: 1:5



T11 TYPICAL TRANSITION DETAIL AT EPDM MEMBRANE
BE-16 1:5

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EPDM ROOF MEMBRANE
POLYETHYLENE AIR VAPOUR BARRIER
EXISTING PLYWOOD DECK
EXISTING METAL DECK

NEW ICE TANK ROOFING SYSTEM
PHASE 1 ROOF AREA
MODIFIED BITUMEN CAP SHEET
MODIFIED BITUMEN BASE SHEET
ASPHALT RECOVERY BOARD
NEW POLYISOCYANURATE INSULATION, MIN R50
NEW SELF ADHERED VAPOUR BARRIER
EXISTING PLYWOOD DECK
EXISTING METAL DECK

ENGINEER'S STAMP

ISSUE	DESCRIPTION	DATE (DD/MM/YY)
2	ISSUED FOR TENDER	07/23/13
1	ISSUED FOR CLIENT REVIEW 95%	05/04/12

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NATIONAL RESEARCH COUNCIL CANADA
INSTITUTE OF OCEAN TECHNOLOGY
ST JOHN'S, NEWFOUNDLAND

**ROOF REPLACEMENT
PHASE 1,2,3,4 AND 5
TYPICAL DETAILS**

DATE: MARCH 2012	DRAWING No:
SCALE: AS SHOWN	BE-16
DESIGN: PTC/EL/GML	
DRAWN: EL	PROJECT No:
REVIEWED: DN/SDT	2123161.00