



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

**ROOF REMEDIATION
JOSEPH A. GHIZ BUILDING
275 POPE ROAD
SUMMERSIDE
PEI**

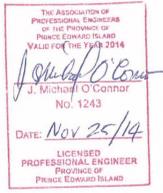
DRAWING LIST

- 0 COVER
- S1 LOWER ROOF PLAN REMEDIATION
- S2 UPPER ROOF PLAN ATRIUM CAULKING REMEDIATION
- S3 DETAILS AND SECTIONS
- S4 DETAILS AND SECTIONS

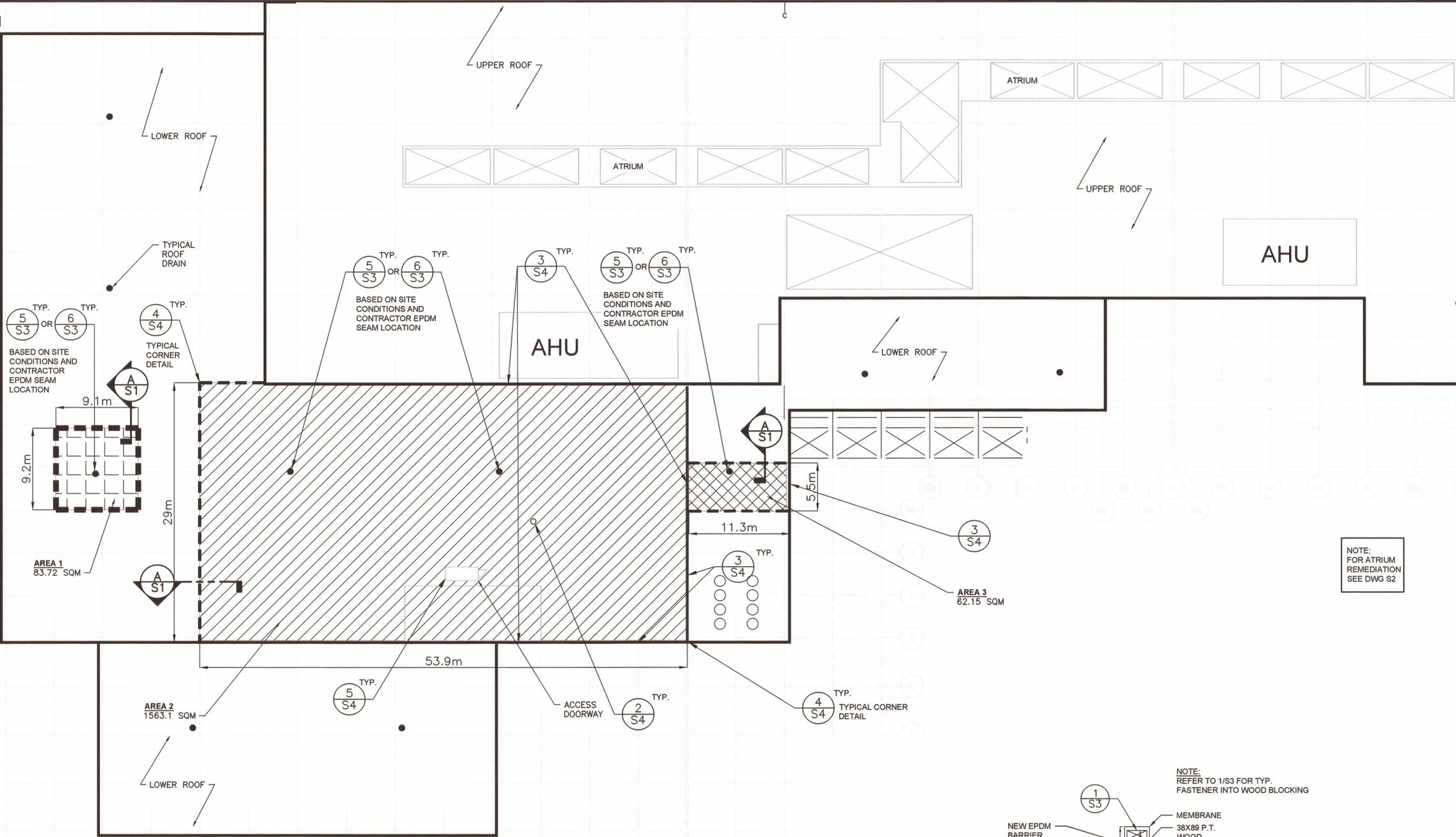
PROJECT NO. R.000003.048

Canada

NORTH



MATRIX Consulting Inc. Project Management and Engineering Solutions. PO Box 22028 RPO Bayers Road, Halifax, NS, Canada, B3L 4T7



NOTE: FOR ATRIUM REMEDIATION SEE DWG S2

LEGEND table with 4 rows: Area 1 (83.72 SQM), Area 2 (1563.1 SQM), Area 3 (62.15 SQM), and New Separation Line.

Revisions table with 3 rows: 95% Submission (Nov 06 2014), 90% Submission (Oct 29 2014), 75% Submission (Oct 2014).

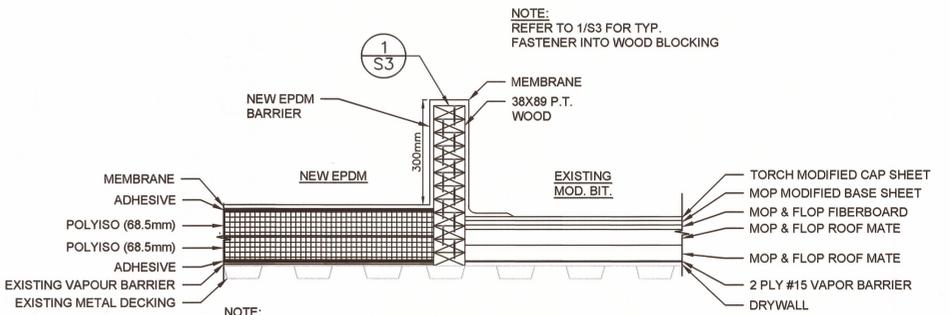
ROOF REMEDIATION JOSEPH A. GHIZ BLDG. 275 POPE ROAD SUMMERSIDE PEI

LOWER ROOF PLAN

SCALE: 1:250



1 S1

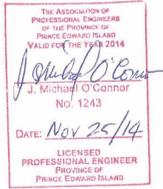


NEW ROOF SEPARATION SECTION

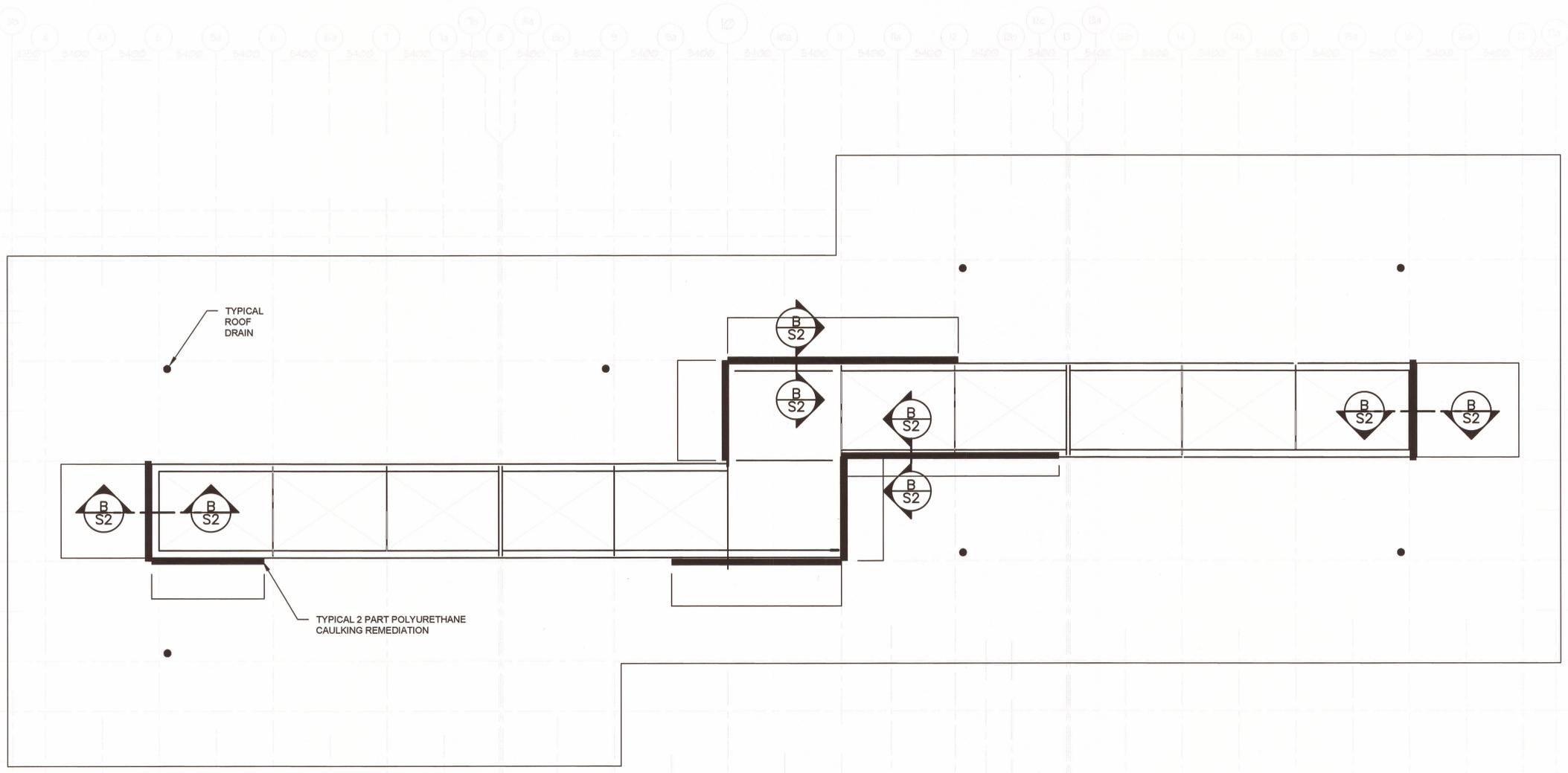
SCALE: 1:10

A S1

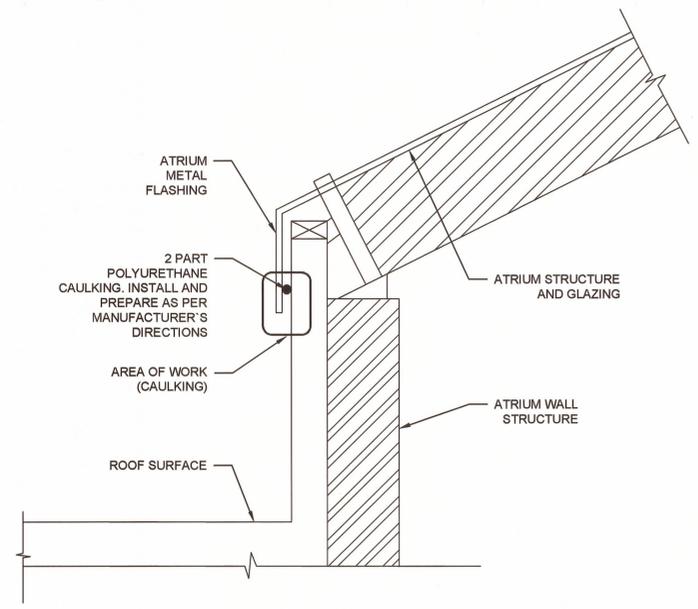




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UPPER ROOF PLAN (1/S2)
 SCALE : 1:250
 0mm 2 4 6 8 10 12 14 16 18 20m



ATRIUM SECTION (B/S2)
 SCALE: 1:10

3	95% SUBMISSION	NOV 06 2014
2	90% SUBMISSION	OCT 29 2014
1	75% SUBMISSION	OCT 2014
revisions		date

project
ROOF REMEDIATION
JOSEPH A. GHIZ BLDG.
275 POPE ROAD
SUMMERSIDE
PEI

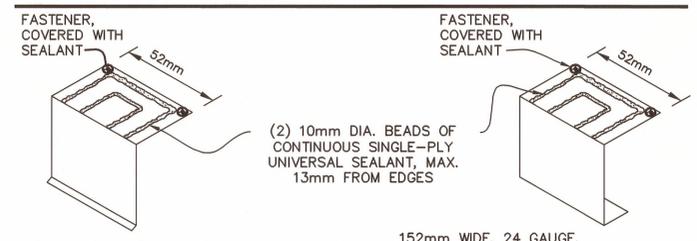
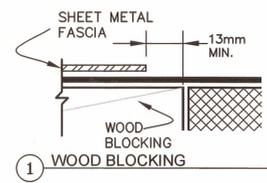
drawing
UPPER ROOF PLAN
ATRIUM CAULKING
REMEDATION
 dessin

designed MO'C conçu
 date SEPTEMBER 2014
 drawn AC dessiné
 date SEPTEMBER 2014
 approved approuvé

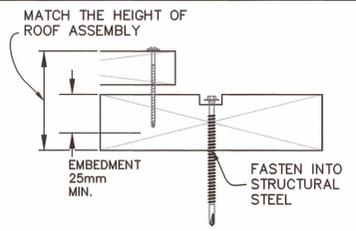
date
 Tender Soumission
 PWGSC Project Manager Administrateur de projets TPSCG

project number no. du projet
R.000003.048

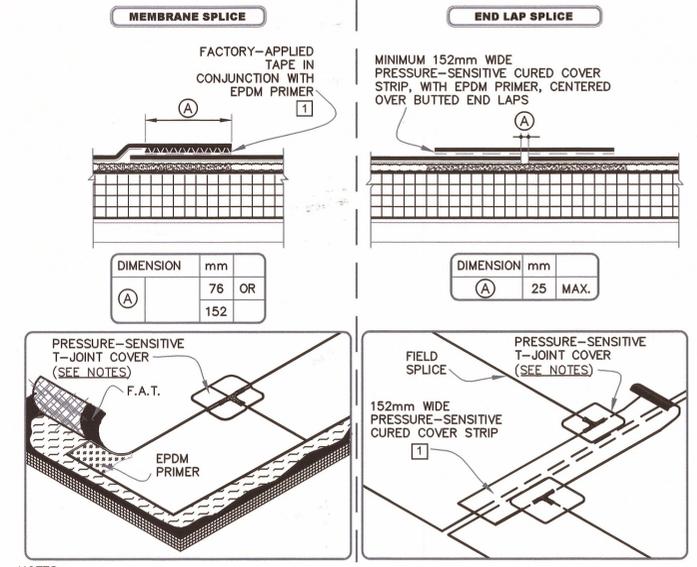
drawing no. no. du dessin
S2



(2) 10mm DIA. BEADS OF CONTINUOUS SINGLE-PLY UNIVERSAL SEALANT, MAX. 13mm FROM EDGES

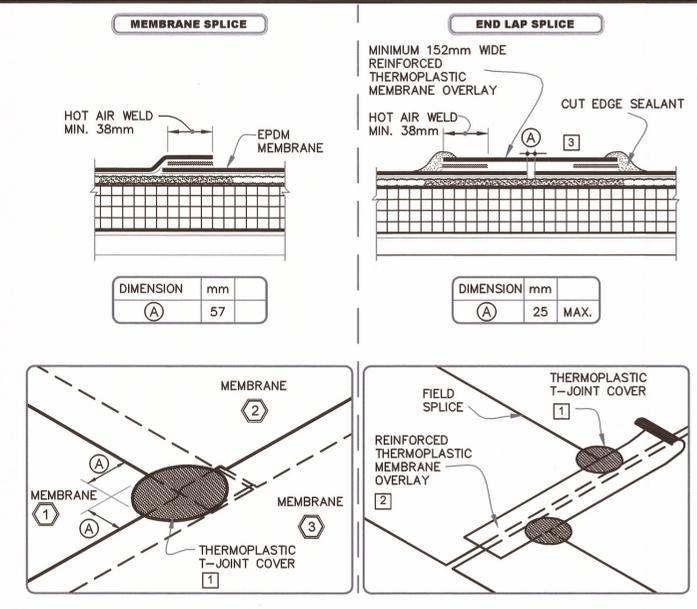


NEW EPDM BARRIER DETAILS 1
NTS S3



- NOTES:
1. APPLY EPDM PRIMER TO MEMBRANE SURFACES PRIOR TO INSTALLING PRESSURE-SENSITIVE FLASHING AND/OR FACTORY APPLIED SPlicing TAPE.
 2. APPLY LAP SEALANT ALONG THE EDGE OF THE MEMBRANE SPlice (UNDER THE 152mmx152mm T-JOINT COVER) COVERING THE EXPOSED SPlicing TAPE 51mm IN EACH DIRECTION FROM THE SPlicing INTERSECTION.
 3. 152mm WIDE PRESSURE-SENSITIVE FLASHING MAY ALSO BE CENTERED OVER THE FIELD SPlicing INTERSECTION.
 4. ONLY APPROVED WATER BASED ADHESIVE CAN BE USED WITH WHITE EPDM MEMBRANE.
 5. INSTALL MEMBRANE SPlices AS DIRECTED BY THE INSTALLER ACCORDING TO FIELD CONDITIONS.

TYPICAL EPDM MEMBRANE SPICES 2
NTS S3 TYP.

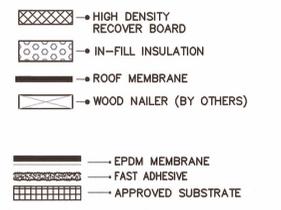


- NOTES:
1. USE 115-MIL THERMOPLASTIC EPDM MEMBRANE, APPLY A 114mm DIAMETER THERMOPLASTIC "T-JOINT" COVER AT ALL FIELD SPlicing INTERSECTIONS.
 2. WHEN USING 60-MIL THERMOPLASTIC REINFORCED MEMBRANE OVERLAY, INTERSECTIONS BETWEEN SPlices MUST BE OVERLAPED WITH A 114mm DIAMETER THERMOPLASTIC "T-JOINT" COVER.
 3. APPROXIMATELY 3mm DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE AND ON CUT EDGES OF PVC MEMBRANE.
 4. INSTALL MEMBRANE SPlices AS DIRECTED BY THE INSTALLER ACCORDING TO FIELD CONDITIONS.

TYPICAL THERMOPLASTIC MEMBRANE SPICES 3
NTS S3 TYP.

The Association of Professional Engineers of the Province of Prince Edward Island
VALID FOR THE YEAR 2014
J. Michael O'Connor
No. 1243
DATE: Nov 25/14
LICENSED PROFESSIONAL ENGINEER
Province of Prince Edward Island

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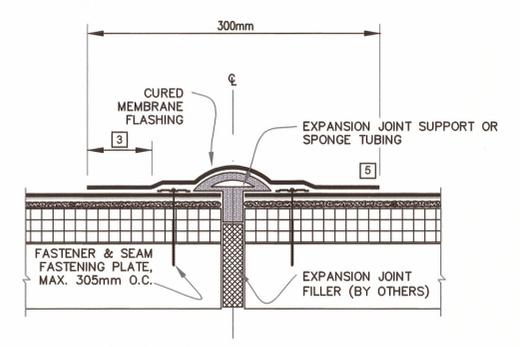


3	95% SUBMISSION	NOV 06 2014
2	90% SUBMISSION	OCT 29 2014
1	75% SUBMISSION	OCT 2014
revisions		date
project		project

ROOF REMEDIATION
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SUMMERSIDE PEI

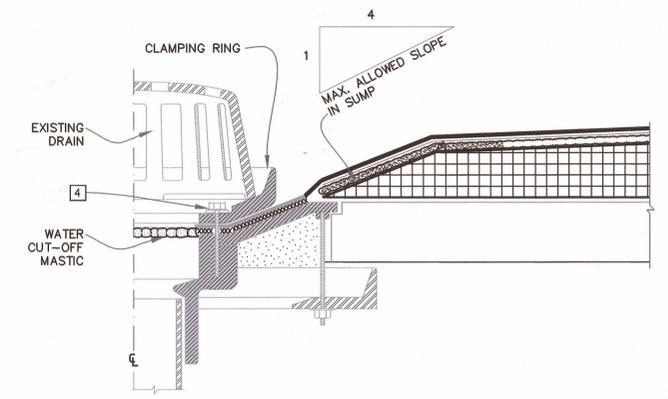
DETAILS AND SECTIONS

designed	MO'C	conçu
date	SEPTEMBER 2014	
drawn	AC	dessiné
date	SEPTEMBER 2014	
approved		approuvé
date		
Tender		Soumission
PWSC Project Manager / Administrateur de projets TPSCG		
project number		no. du projet
R.000003.048		
drawing no.		no. du dessin
S3		



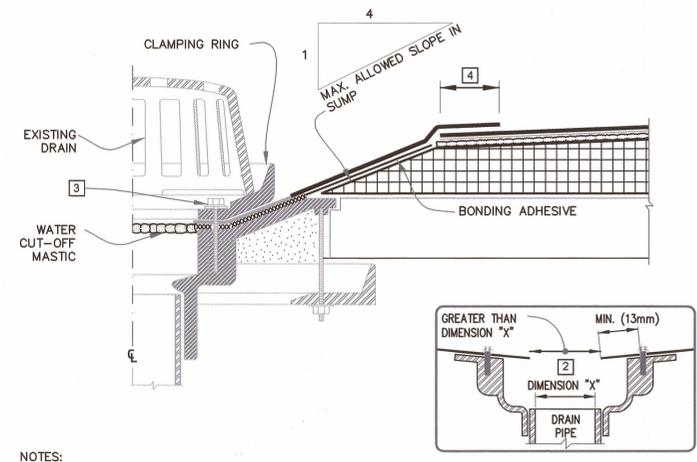
- NOTES:
1. EXPANSION JOINT SUPPORT WIDTH SHALL BE A MINIMUM OF 19mm AND SHALL NOT EXCEED 76mm.
 2. APPROXIMATELY 3mm DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE AND RECOMMENDED ON CUT EDGES OF PVC MEMBRANE.
 3. MEMBRANE SPlices SHALL BE COMPLETED USING MINIMUM 76mm WIDE SPlicing TAPE/ PRIMER WITH EPDM MEMBRANE AND MINIMUM 38mm HOT AIR WELD WITH TPO/PVC.
 4. USE 60-MIL REINFORCED THERMOPLASTIC MEMBRANE FLASHING, APPLY A 114mm DIAMETER THERMOPLASTIC "T-JOINT" COVER AT ALL FIELD SPlicing INTERSECTIONS.
 5. ROOF MEMBRANE SHALL NOT BE ADHERED OVER THE EXPANSION JOINT SUPPORT OR SPONGE TUBING.
 6. USE TWO LAYERS OF PRESSURE-SENSITIVE FLASHING WITH EACH LAYER 76mm LARGER THAN THE PREVIOUS LAYER IN ALL DIRECTIONS FOR EXPANSION JOINT INTERSECTIONS BETWEEN EXPANSION JOINTS TO WALL OR EDGING.
 7. EXPANSION JOINT LOCATIONS WILL BE DETERMINED BY THE INSTALLER, ON SITE, ACCORDING TO FIELD CONDITIONS.

TYPICAL EXPANSION JOINT 4
NTS S3 TYP.



- NOTES:
1. REMOVE EXISTING FLASHING MATERIAL & ENSURE THE DRAIN RING IS COMPLETELY CLEAN DOWN TO BARE METAL.
 2. EPDM-BACKING MUST BE REMOVED FROM THE MEMBRANE SO THAT WATER CUT-OFF MASTIC IS IN DIRECT CONTACT.
 3. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 13mm FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
 4. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.

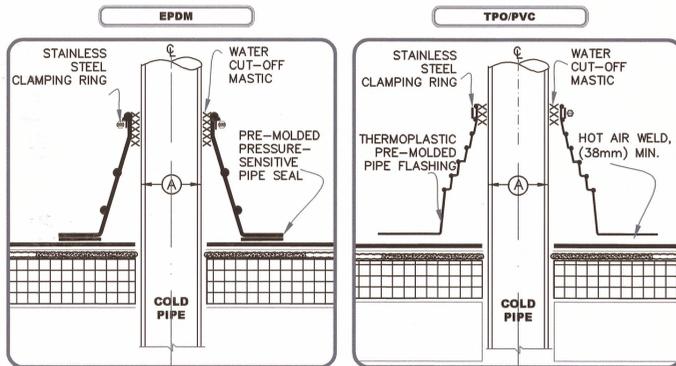
TYPICAL ROOF DRAIN WITH CONTINUOUS MEMBRANE 5
NTS S3 TYP.



- NOTES:
1. REMOVE EXISTING FLASHING MATERIAL & ENSURE THE DRAIN RING IS COMPLETELY CLEAN DOWN TO BARE METAL.
 2. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 13mm FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
 3. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
 4. SPlices SHALL BE COMPLETED USING MIN. 76mm WIDE SPlicing TAPE/ PRIMER WITH EPDM MEMBRANE AND MINIMUM 38mm HOT AIR WELD WITH TPO/PVC.
 5. FIELD SPlices MUST BE LOCATED AT LEAST 152mm OUTSIDE THE DRAIN SUMP.
 6. APPROXIMATELY 3mm DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE AND ON CUT EDGES OF PVC MEMBRANE.

TYPICAL ROOF DRAIN WITH SEPARATE TARGET SPlice 6
NTS S3 TYP.

DETAILS FOR BOTH PIPE SCENARIOS



DIMENSIONS	mm
(A)	13 TO 152

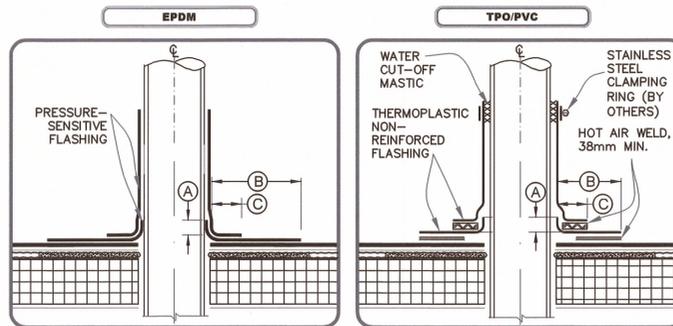
DIMENSIONS	mm
(A)	8 TO 203

- NOTES:
- REMOVE ALL FLASHING BEFORE INSTALLING FIELD FABRICATED PIPE SEAL.
 - APPLY EPDM PRIMER TO SPLICE AREA.
 - PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
 - DECK FLANGES OF THE PRE-MOLDED PIPE SEAL SHALL NOT BE OVERLAPPED, CUT OR APPLIED OVER ANY ANGLE CHANGE.
 - WHEN A FIELD SPLICE INTERSECTS A PIPE SEAL, APPLY LAP SEALANT ALONG THE EDGE OF THE MEMBRANE SPLICE COVERING THE EXPOSED SPLICE TAPE 51mm IN EACH DIRECTION FROM THE SPLICE INTERSECTION & OVERLAY WITH A 152 X 152mm T-JOINT COVER.

- NOTES:
- REMOVE ALL FLASHING BEFORE INSTALLING FIELD FABRICATED PIPE SEAL.
 - PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
 - DECK FLANGES OF THE PRE-MOLDED PIPE SEAL SHALL NOT BE OVERLAPPED, CUT OR APPLIED OVER ANY ANGLE CHANGE.

TYPICAL PIPE FRAME NTS **1** S4

DETAILS FOR BOTH PIPE SCENARIOS



DIMENSIONS	mm
(A)	13 MIN.
(B)	76 MIN.
(C)	25 MIN.

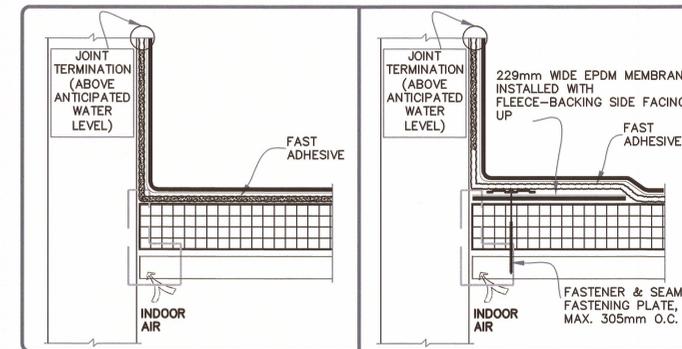
DIMENSIONS	mm
(A)	13 MIN.
(B)	38 TO 51
(C)	25 MIN.

- NOTES:
- REMOVE ALL FLASHING BEFORE INSTALLING FIELD-FABRICATED PIPE SEAL.
 - PRIOR TO APPLYING PRESSURE-SENSITIVE FLASHING, APPLY EPDM PRIMER TO SPLICE AREAS.
 - MECHANICAL SECUREMENT IS REQUIRED AROUND ALL PIPES GREATER THAN 457mm IN DIAMETER.
 - IN COLDER TEMPERATURES A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE FLASHING.
 - REFER TO EPDM UNIVERSAL DETAILS FOR HOT STACK, STEEL TUBING & FLEXIBLE PIPE PENETRATIONS.

- NOTES:
- REMOVE ALL FLASHING BEFORE INSTALLING FIELD FABRICATED PIPE SEAL.
 - APPLY HEAT TO FLASHING AND FORM BY HAND PRIOR TO HOT AIR WELDING.
 - MECHANICAL SECUREMENT IS REQUIRED AROUND ALL PIPES GREATER THAN 457mm IN DIAMETER.
 - REFER TO THERMOPLASTIC UNIVERSAL DETAILS FOR HOT STACK, STEEL TUBING & FLEXIBLE PENETRATIONS.

TYPICAL VENT PIPE DETAIL NTS **2** S4

DETAILS FOR BOTH SCENARIOS



- NOTES:
- PRESSURE-SENSITIVE EPDM T-JOINT COVER OR 152mm WIDE PRESSURE-SENSITIVE FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER EPDM FIELD SPLICES AT THE ANGLE CHANGE.
 - WHEN THE USE OF FAST ADHESIVE (FULL SPRAY) IS NOT FEASIBLE ON THE VERTICAL SUBSTRATE, APPLICABLE BONDING ADHESIVE MAY BE USED. APPLY A COAT TO THE FLEECE SIDE OF THE MEMBRANE AND ALLOW TO DRY. ONCE THE ADHESIVE ON THE FLEECE IS DRY, APPLY BONDING ADHESIVE AT THE COVERAGE RATE OF 5.56 SQUARE METERS PER 3.8 LITERS TO THE WALL SUBSTRATE AND A SECOND COAT TO THE EPDM MEMBRANE.
 - AREA OF WORK BASED ON SITE CONDITIONS AND CONTRACTOR RECOMMENDATIONS.

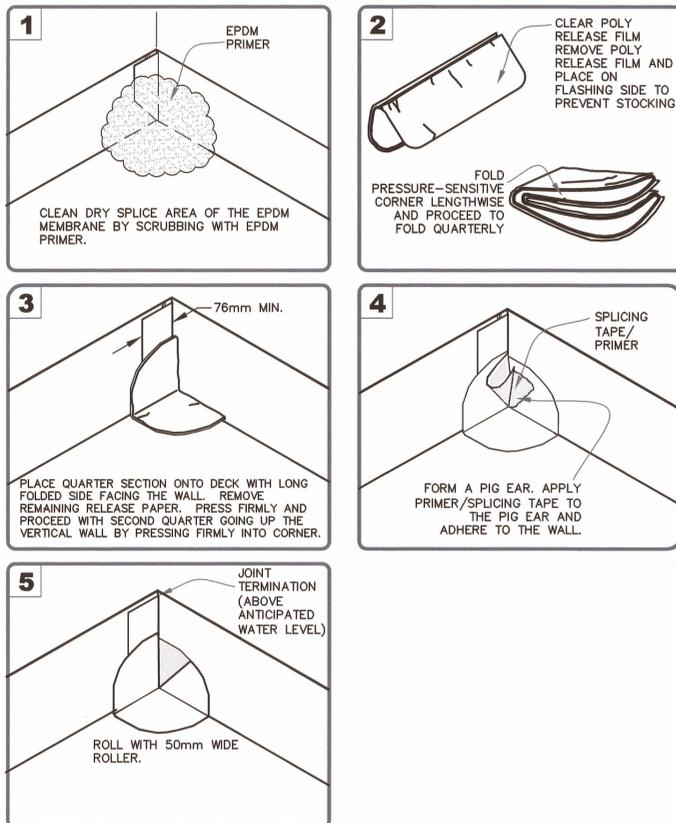
TYPICAL PARAPET WITH CONTINUOUS MEMBRANE NTS **3** S4

The Association of Professional Engineers of the Province of Prince Edward Island
 J. Michael O'Connor
 No. 1243
 DATE: Nov 25/14
 LICENSED PROFESSIONAL ENGINEER
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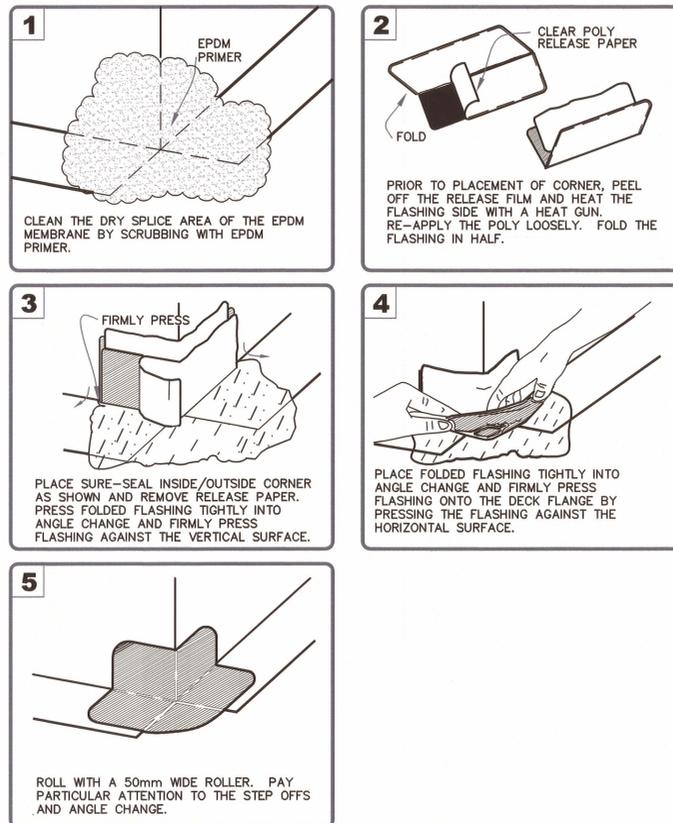
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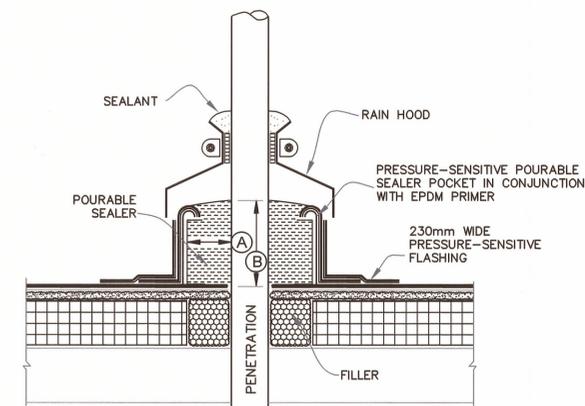
EPDM MEMBRANE
 FAST ADHESIVE
 APPROVED SUBSTRATE



TYPICAL EPDM PRESSURE SENSITIVE INSIDE CORNER NTS **4** S4



TYPICAL EPDM PRESSURE SENSITIVE OUTSIDE CORNER NTS **5** S4



DIMENSIONS	mm
(A)	25 MIN.
(B)	51 MIN.

- NOTES:
- ALL DEBRIS (PAINT, RUST, OTHER FLASHINGS, ETC.) MUST BE REMOVED FROM THE PENETRATION.
 - PENETRATIONS, MEMBRANE, FLASHING AND INSIDE POCKET MUST BE PRIMED WITH EPDM PRIMER PRIOR TO APPLYING POURABLE SEALER.
 - POURABLE SEALER MUST COMPLETELY FILL POURABLE SEALER POCKET TO PREVENT PONDING OF WATER.
 - POURABLE SEALER MUST CONTACT PRIMED PRESSURE-SENSITIVE FLASHING AND DECK MEMBRANE.
 - PIPE CLUSTERS MUST HAVE MINIMUM 25mm CLEARANCE BETWEEN PENETRATIONS.
 - WHEN FAST ADHESIVE IS USED TO ADHERE THE EPDM MEMBRANE TO AN APPROVED SUBSTRATE, SECUREMENT IS REQUIRED FOR POURABLE SEALER POCKETS.

TYPICAL EPDM PRESSURE SENSITIVE POURABLE SEALER POCKET NTS **6** S4

3	95% SUBMISSION	NOV 06 2014
2	90% SUBMISSION	OCT 29 2014
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revisions		date

project
ROOF REMEDIATION
JOSEPH A. GHIZ BLDG.
275 POPE ROAD
SUMMERSIDE PEI

DETAILS AND SECTIONS

designed MO'C conqur
 date SEPTEMBER 2014
 drawn AC dessinif
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 approved
 date
 Tender
 PWGSC Project Manager / Administrateur de projets TPSCG
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S4