

BOWDEN INSTITUTION BOWDEN, ALBERTA A18 REPAIRS AND B21 ROOF REPLACEMENTS

INTENT FOR PROJECT:

- BUILT-UP ROOF AND SBS SYSTEMS ON THE FOLLOWING ROOF IS PAST THE INTENDED LIFECYCLE.

- B21 ADMINISTRATION BUILDING

STANDING SEAM METAL ROOF SYSTEM IN GOOD CONDITION, DAMAGE IS MINOR AND NEED REPAIR.

-A18 GYMNASIUM BUILDING

- ROOF SYSTEMS WILL BE REPLACED WITH AN SBS ROOF SYSTEMS.

- NEW INSULATION
- NEW FLASHINGS
- NEW PARAPETS
- NEW SKYLIGHTS

DRAWING LIST:

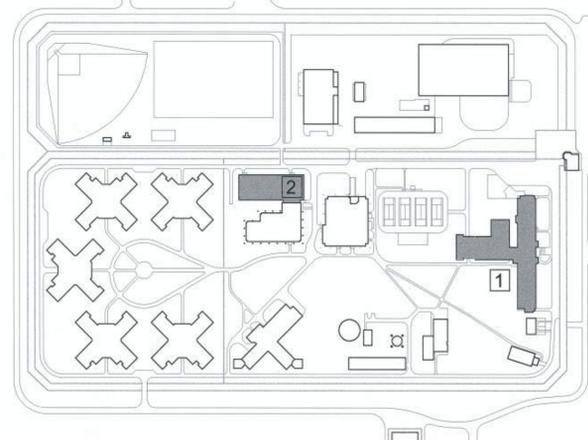
ARCHITECTURAL

- A000 - COVER SHEET
- A101 - B21 KEY ROOF PLAN
- A102 - B21 EXISTING ROOF PLAN
- A103 - B21 EXISTING ROOF PLAN
- A104 - B21 EXISTING ROOF PLAN
- A105 - B21 EXISTING ROOF PLAN
- A106 - B21 EXISTING REPLACEMENT PLAN
- A107 - B21 EXISTING REPLACEMENT PLAN
- A108 - B21 EXISTING REPLACEMENT PLAN
- A109 - B21 EXISTING REPLACEMENT PLAN
- A110 - A18 EXISTING AND REPLACEMENT PLAN

- A201 - B21 ROOF DETAILS EXISTING & NEW (SBS)
- A202 - B21 ROOF DETAILS EXISTING & NEW (SBS)

KEY PLAN :

NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



DO NOT SCALE DRAWINGS

Revision/Revision Client/client	Description/Description	Date/Date
3	ISSUED FOR TENDER	18/03/09
2	100% REVIEW	18/02/14
1	99% REVIEW	18/01/12
0	50% REVIEW	17/12/11

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet

**BOWDEN INSTITUTION
BOWDEN, ALBERTA
A18 REPAIR AND B21 ROOF
REPLACEMENTS**

Approved by/Approve par
CG

Designed by/Concept par
CG

Drawn by/Dessine par
TB

PWGC Project Manager/Administrateur de Projets TPSGC
GREG SPENCE

PWGC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client

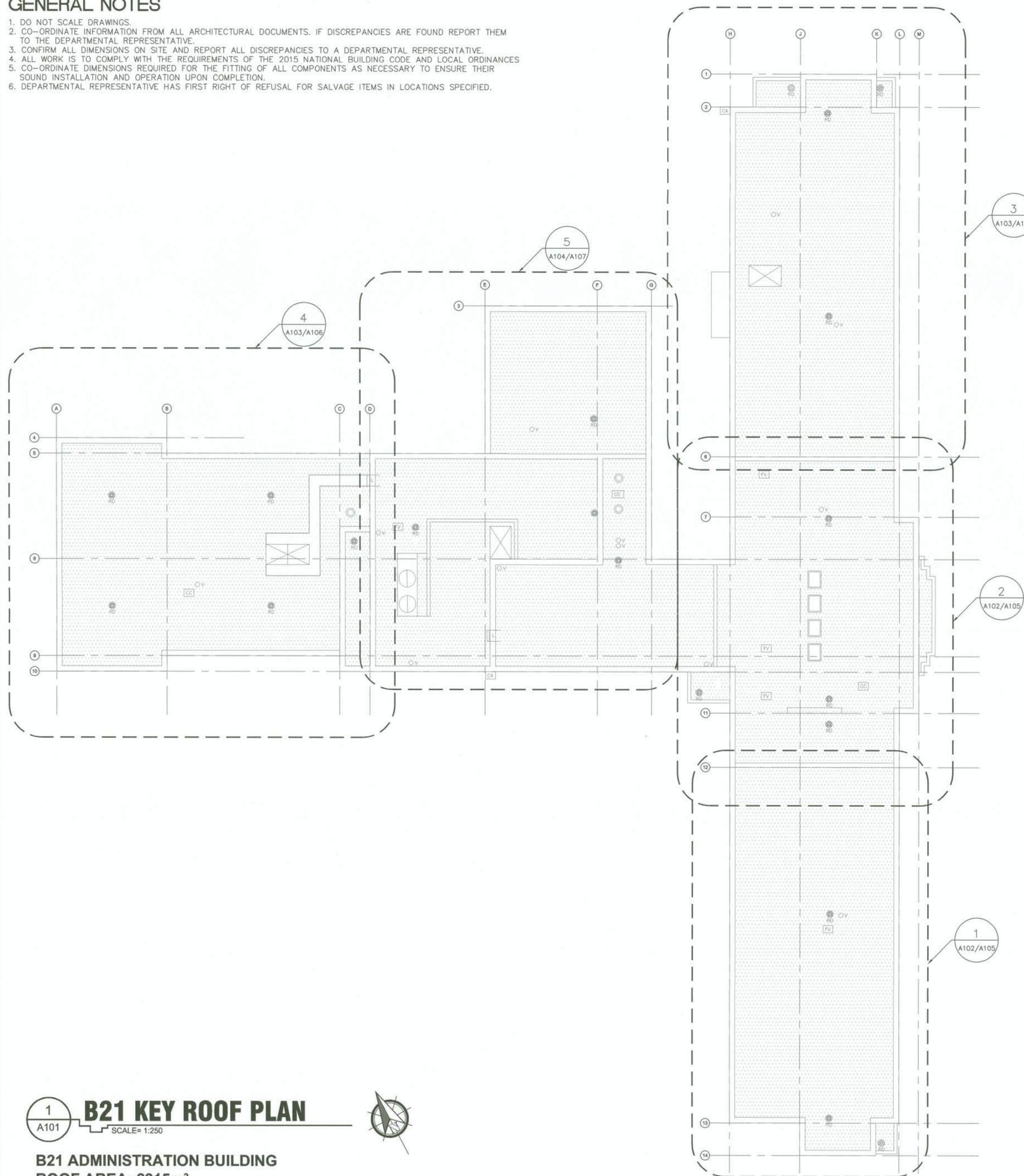
Drawing title/Titre du dessin

COVER SHEET

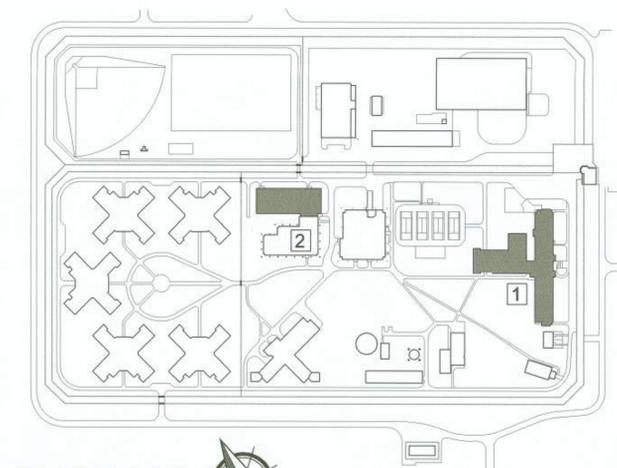
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083696.001	A000 OF 13	3

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. CO-ORDINATE INFORMATION FROM ALL ARCHITECTURAL DOCUMENTS. IF DISCREPANCIES ARE FOUND REPORT THEM TO THE DEPARTMENTAL REPRESENTATIVE.
3. CONFIRM ALL DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO A DEPARTMENTAL REPRESENTATIVE.
4. ALL WORK IS TO COMPLY WITH THE REQUIREMENTS OF THE 2015 NATIONAL BUILDING CODE AND LOCAL ORDINANCES
5. CO-ORDINATE DIMENSIONS REQUIRED FOR THE FITTING OF ALL COMPONENTS AS NECESSARY TO ENSURE THEIR SOUND INSTALLATION AND OPERATION UPON COMPLETION.
6. DEPARTMENTAL REPRESENTATIVE HAS FIRST RIGHT OF REFUSAL FOR SALVAGE ITEMS IN LOCATIONS SPECIFIED.



NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



KEY PLAN



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Client/client
 Drawing title/Titre du dessin
B21 KEY ROOF PLAN

Project No./No. du projet R.083696.001	Sheet/Feuille A101 OF 13	Revision no./La Révision no. 3
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1 B21 KEY ROOF PLAN

A101 SCALE= 1:250
B21 ADMINISTRATION BUILDING
ROOF AREA: 2915m²



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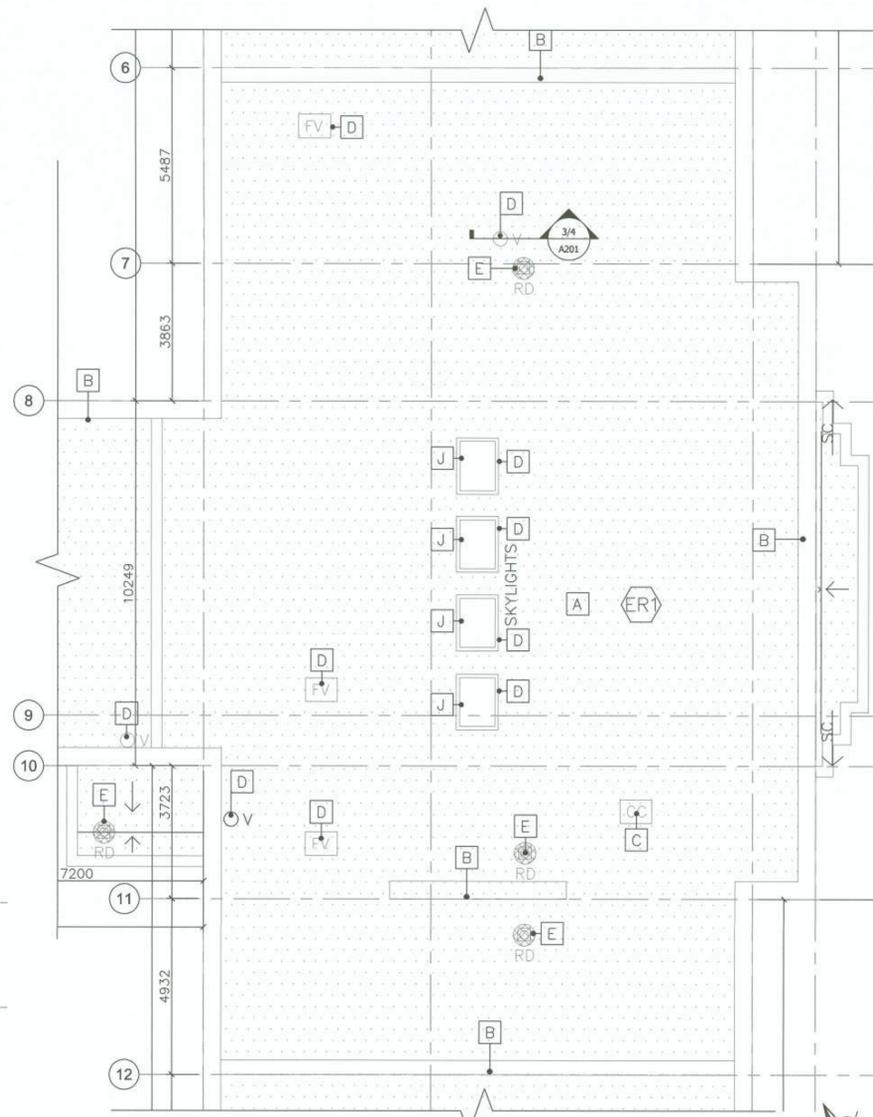
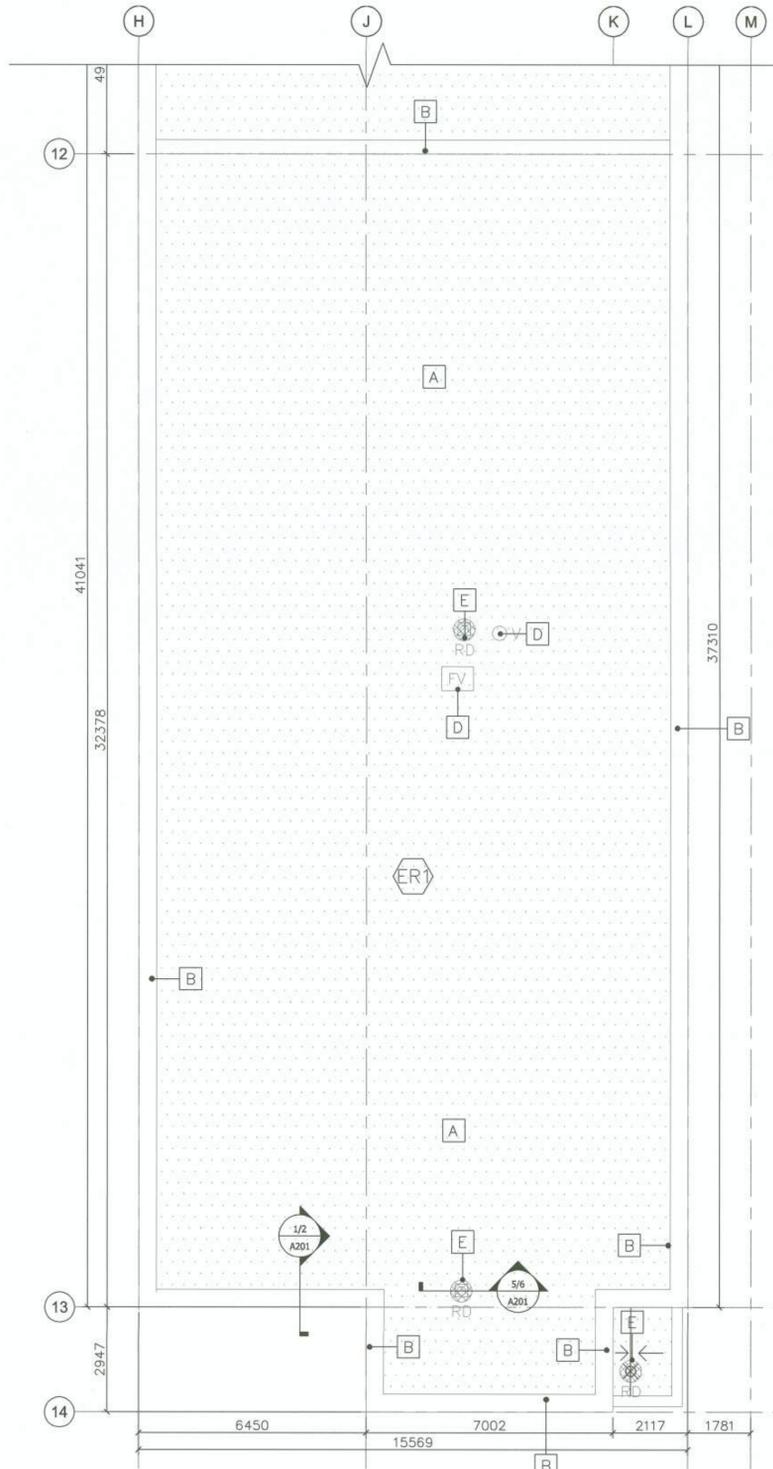
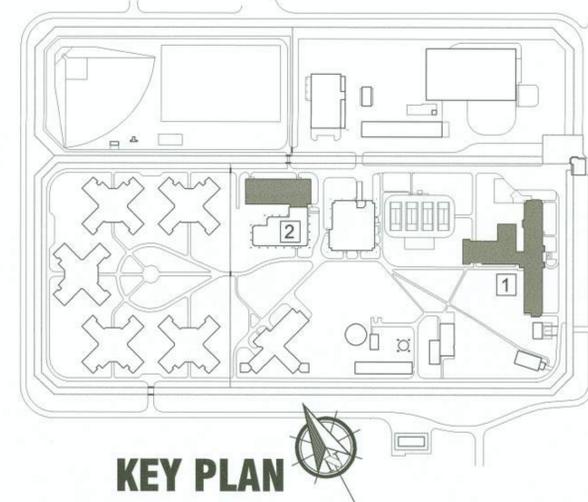
NOTE

- ALL EXISTING ROOF MATERIALS ARE TO BE REMOVED DOWN TO EXISTING ROOF DECK.
- REPLACE OR REPAIR ALL PARAPETS AND CAP METAL FLASHINGS. MECHANICAL EQUIPMENT TO BE LIFTED TO ENSURE THE PROPER WATERPROOFING ON THE CURBS.
- MINIMUM INSULATION THICKNESS OF R-30 IS REQUIRED ON BOTH BUILDINGS. CONTRACTOR TO ENSURE A MINIMUM OF R-20 ROOF INSULATION IS MAINTAINED AT ALL PENETRATIONS.

ROOF ASSEMBLIES LEGEND

- (ER)** EXISTING SBS ROOF SYSTEM
- EXISTING BITUMEN & REINFORCING FABRIC LAYER TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 38mm INSULATION TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 100mm RIGID INSULATION TO BE REMOVED
 - EXISTING VAPOUR BARRIER TO BE REMOVED
 - EXISTING ROOF DECK TO REMAIN

NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



KEYNOTES

- A** REMOVE EXISTING ROOF SYSTEM DOWN TO EXISTING ROOF DECK TYPICAL.
- B** REMOVE EXISTING CAP FLASHING ON PARAPETS.
- C** EXISTING ROOF CURB FLASHING TO BE REPLACED.
- D** REMOVE EXISTING FLASHING.
- E** REMOVE EXISTING ROOF DRAINS TO BE REPLACED.
- G** REMOVE AND REINSTALL EXISTING RADIO ANTENNA AND SECURITY CAMERA SYSTEM. CONTRACTOR TO VERIFY AND COORDINATE WITH THE APPROVAL OF CSC SUBCONTRACTOR.
- H** REMOVE EXISTING LADDER
- J** EXISTING SKYLIGHT TO BE REPLACED.
- K** REMOVE EXISTING BLOCKING

LEGEND

- V** PLUMBING VENT
- DS** DOWNSPOUT
- SLOPE 2%
- RD** ROOF DRAIN
- SC** SCUPPER
- CC** CAPPED CURB
- RTU** ROOF TOP UNIT
- FV** FLUE VENT
- CA** SECURITY CAMERA
- E1** ELECTRICAL CONNECTION
- △** ANTENNA
- FAN
- L** LADDER
- MC** MECHANICAL COMPONENT
- ▨** EXISTING ROOF

1
A102
EXISTING B21 EXISTING ROOF
SCALE= 1:100
B21 ADMINISTRATION BUILDING

2
A102
EXISTING B21 EXISTING ROOF
SCALE= 1:100
B21 ADMINISTRATION BUILDING



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Drawing title/Titre du dessin

B21 EXISTING ROOF PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083696.001	A102	3
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GENERAL NOTES

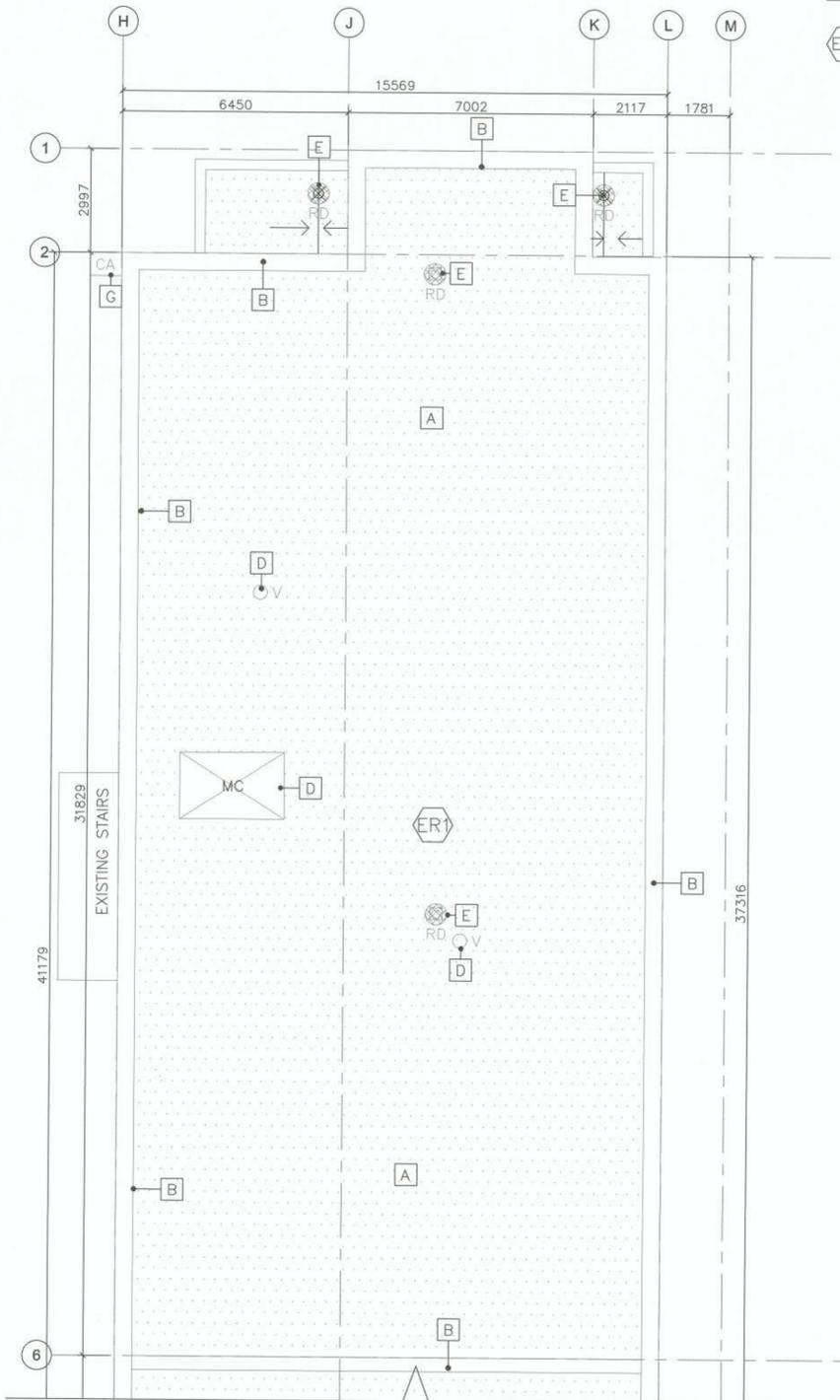
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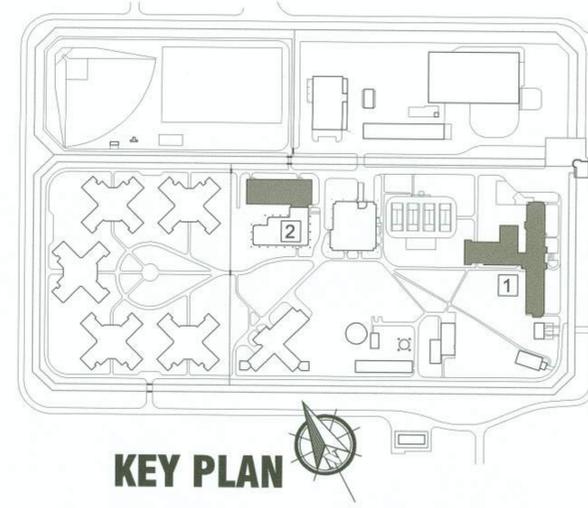
- ALL EXISTING ROOF MATERIALS ARE TO BE REMOVED DOWN TO EXISTING ROOF DECK.
- REPLACE OR REPAIR ALL PARAPETS AND CAP METAL FLASHINGS.
- MECHANICAL EQUIPMENT TO BE LIFTED TO ENSURE THE PROPER WATERPROOFING ON THE CURBS.
- MINIMUM INSULATION THICKNESS OF R-30 IS REQUIRED ON BOTH BUILDINGS, CONTRACTOR TO ENSURE A MINIMUM OF R-20 ROOF INSULATION IS MAINTAINED AT ALL PENETRATIONS.

ROOF ASSEMBLIES LEGEND

- (ER1) EXISTING SBS ROOF SYSTEM**
- EXISTING BITUMEN & REINFORCING FABRIC LAYER TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 38mm INSULATION TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 100mm RIGID INSULATION TO BE REMOVED
 - EXISTING VAPOUR BARRIER TO BE REMOVED
 - EXISTING ROOF DECK TO REMAIN



NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



KEYNOTES

- A** REMOVE EXISTING ROOF SYSTEM DOWN TO EXISTING ROOF DECK TYPICAL.
- B** REMOVE EXISTING CAP FLASHING ON PARAPETS.
- C** EXISTING ROOF CURB FLASHING TO BE REPLACED.
- D** REMOVE EXISTING FLASHING.
- E** REMOVE EXISTING ROOF DRAINS TO BE REPLACED.
- G** REMOVE AND REINSTALL EXISTING RADIO ANTENNA AND SECURITY CAMERA SYSTEM. CONTRACTOR TO VERIFY AND COORDINATE WITH THE APPROVAL OF CSC SUBCONTRACTOR.
- H** REMOVE EXISTING LADDER
- J** EXISTING SKYLIGHT TO BE REPLACED.
- K** REMOVE EXISTING BLOCKING

LEGEND

- PLUMBING VENT
- DOWNSPOUT
- SLOPE 2%
- ROOF DRAIN
- SCUPPER
- CAPPED CURB
- ROOF TOP UNIT
- FLUE VENT
- SECURITY CAMERA
- ELECTRICAL CONNECTION
- ANTENNA
- FAN
- LADDER
- MECHANICAL COMPONENT
- EXISTING ROOF



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Drawing title/Titre du dessin

B21 EXISTING ROOF PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083696.001	A103	3
	OF 13	

3 EXISTING B21 EXISTING ROOF

A103 SCALE= 1:100
B21 ADMINISTRATION BUILDING

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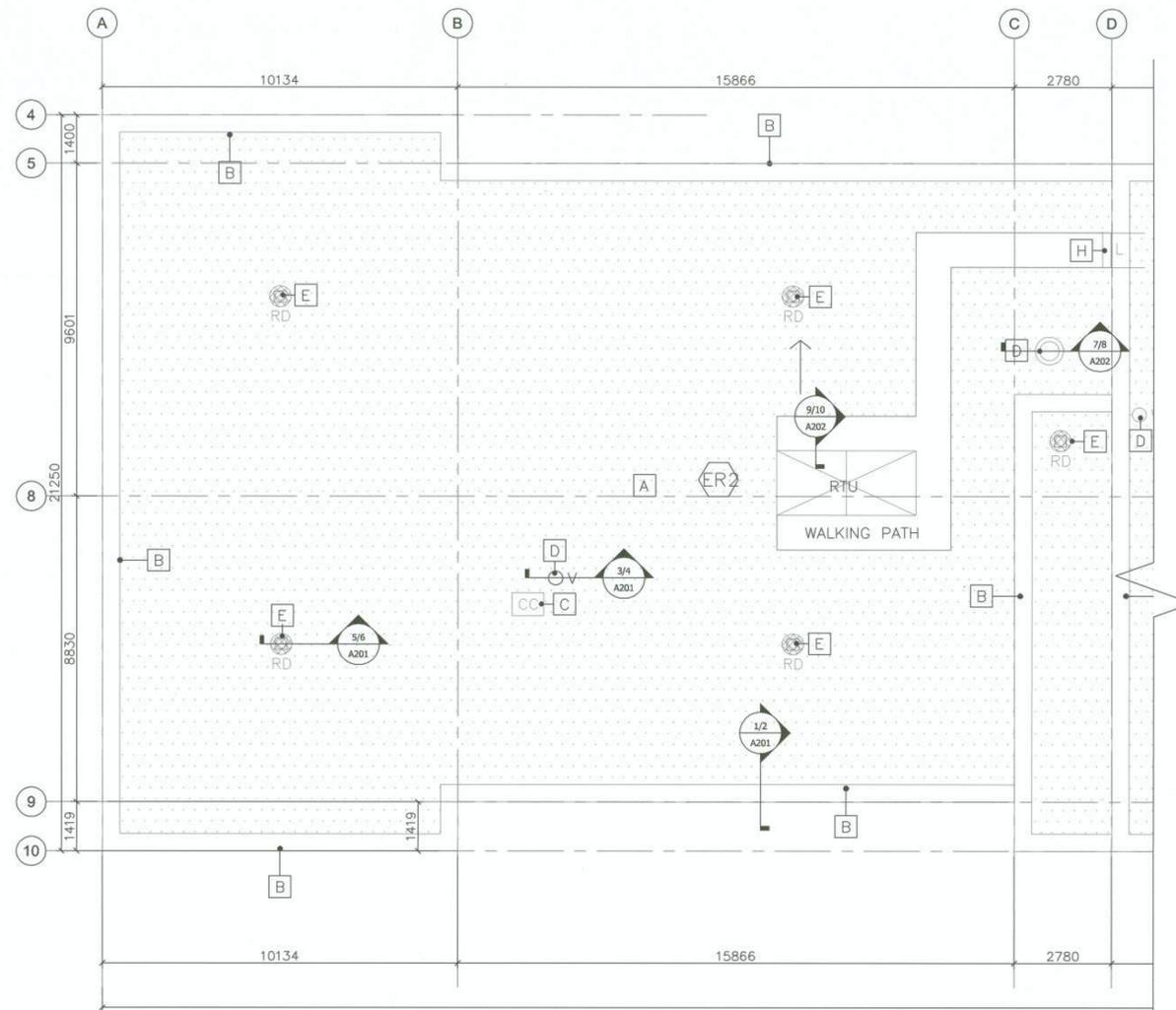
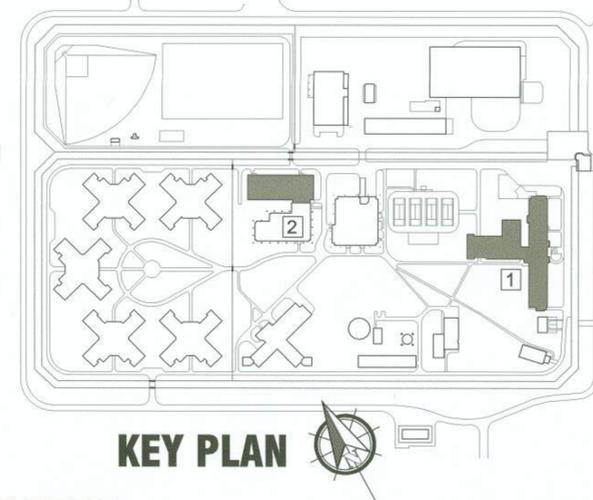
NOTE

- ALL EXISTING ROOF MATERIALS ARE TO BE REMOVED DOWN TO EXISTING ROOF DECK.
- REPLACE OR REPAIR ALL PARAPETS AND CAP METAL FLASHINGS.
- MECHANICAL EQUIPMENT TO BE LIFTED TO ENSURE THE PROPER WATERPROOFING ON THE CURBS.
- MINIMUM INSULATION THICKNESS OF R-30 IS REQUIRED ON BOTH BUILDINGS, CONTRACTOR TO ENSURE A MINIMUM OF R-20 ROOF INSULATION IS MAINTAINED AT ALL PENETRATIONS.

ROOF ASSEMBLIES LEGEND

- ER2** EXISTING BUILT UP ROOF SYSTEM
- EXISTING ASPHALT AND GRAVEL TO BE REMOVED
 - EXISTING 4 PLY ROOFING FELT TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 3 PLY FELT & HOT ASPHALT VAPOUR RETARDANT TO BE REMOVED
 - EXISTING 100mm RIGID INSULATION TO BE REMOVED
 - EXISTING VAPOUR BARRIER TO BE REMOVED
 - EXISTING ROOF DECK TO REMAIN

NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



4 **EXISTING B21 EXISTING ROOF**
A104 SCALE= 1:100
B21 ADMINISTRATION BUILDING

KEYNOTES

- A** REMOVE EXISTING ROOF SYSTEM DOWN TO EXISTING ROOF DECK TYPICAL.
- B** REMOVE EXISTING CAP FLASHING ON PARAPETS.
- C** EXISTING ROOF CURB FLASHING TO BE REPLACED.
- D** REMOVE EXISTING FLASHING.
- E** REMOVE EXISTING ROOF DRAINS TO BE REPLACED.
- G** REMOVE AND REINSTALL EXISTING RADIO ANTENNA AND SECURITY CAMERA SYSTEM. CONTRACTOR TO VERIFY AND COORDINATE WITH THE APPROVAL OF CSC SUBCONTRACTOR.
- H** REMOVE EXISTING LADDER
- J** EXISTING SKYLIGHT TO BE REPLACED.
- K** REMOVE EXISTING BLOCKING

LEGEND

- OV** PLUMBING VENT
- DS** DOWNSPOUT
- SLOPE 2%** SLOPE 2%
- RD** ROOF DRAIN
- SC** SCUPPER
- CC** CAPPED CURB
- RTU** ROOF TOP UNIT
- FV** FLUE VENT
- CA** SECURITY CAMERA
- E1** ELECTRICAL CONNECTION
- ANTENNA** ANTENNA
- FAN** FAN
- L** LADDER
- MC** MECHANICAL COMPONENT
- EXISTING ROOF** EXISTING ROOF



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2	100% REVIEW	18/02/14
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0	50% REVIEW	17/12/11

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

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Drawing title/Titre du dessin

B21 EXISTING ROOF PLAN

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R.083696.001	A104	3
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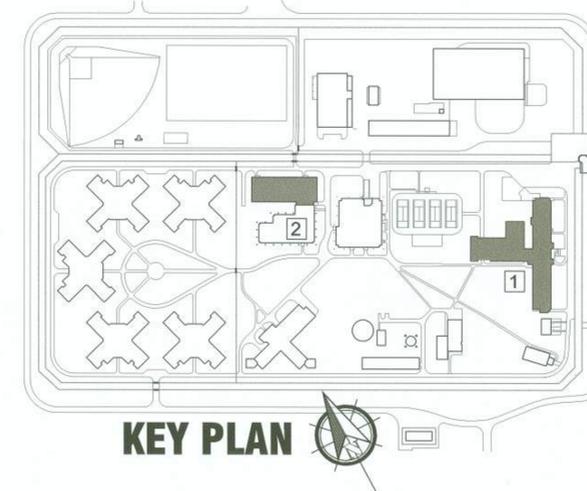
ROOF ASSEMBLIES LEGEND

- ER1** EXISTING SBS ROOF SYSTEM
- EXISTING BITUMEN & REINFORCING FABRIC LAYER TO BE REMOVED
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 - EXISTING ROOF DECK TO REMAIN

NOTE

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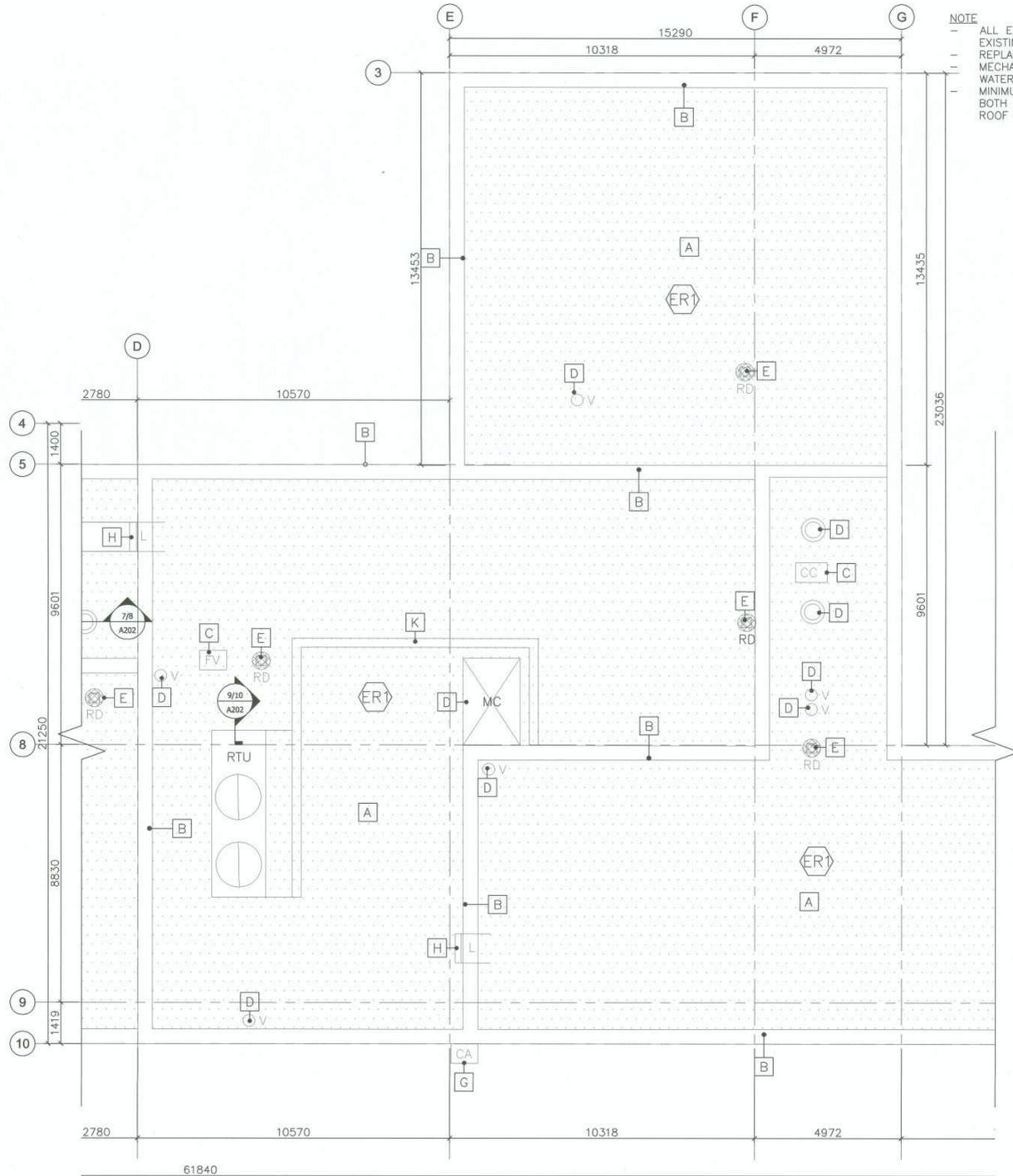


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LEGEND

- PLUMBING VENT
- DOWNSPOUT
- SLOPE 2%
- ROOF DRAIN
- SCUPPER
- CAPPED CURB
- ROOF TOP UNIT
- FLUE VENT
- SECURITY CAMERA
- ELECTRICAL CONNECTION
- ANTENNA
- FAN
- LADDER
- MECHANICAL COMPONENT
- EXISTING ROOF



5 EXISTING B21 EXISTING ROOF

A105 SCALE= 1:100

B21 ADMINISTRATION BUILDING



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B21 EXISTING ROOF PLAN

Project No./No. du projet

R.083696.001

Sheet/Feuille

A105

Revision no./La Révision no.

3

OF 13



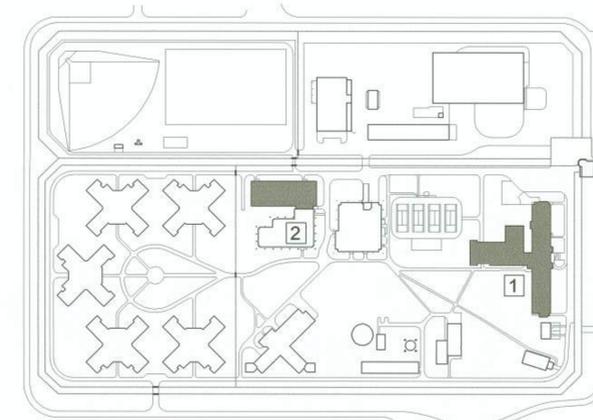
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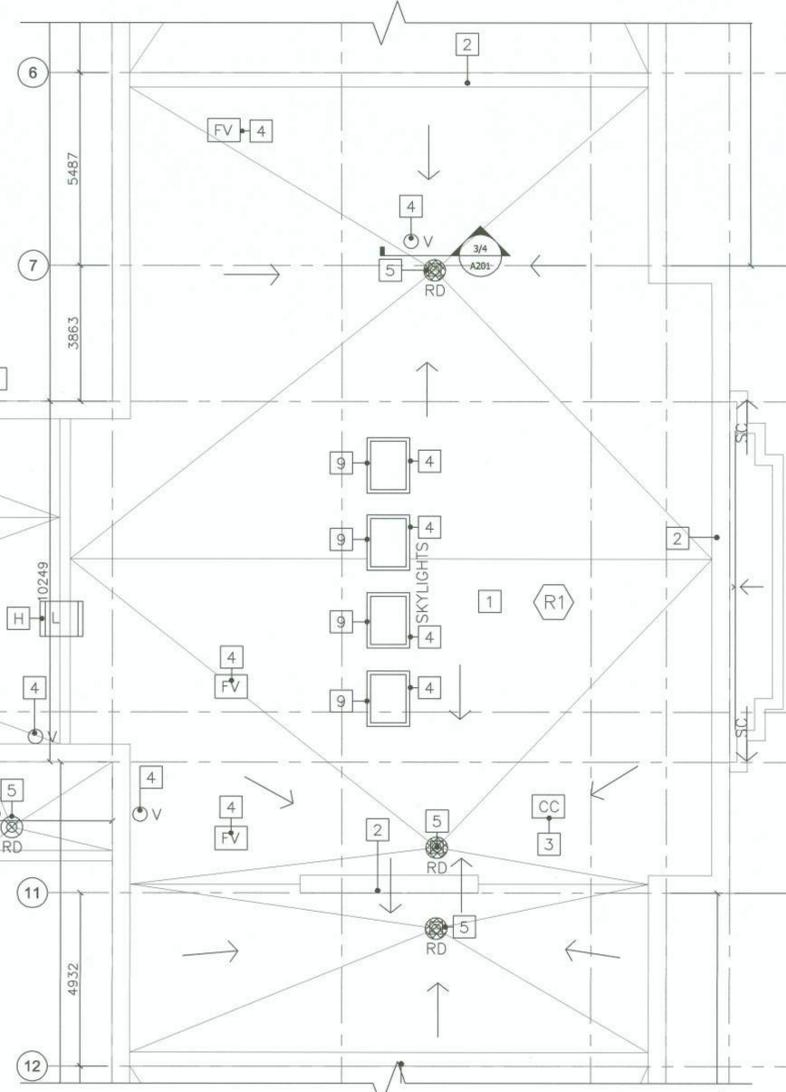
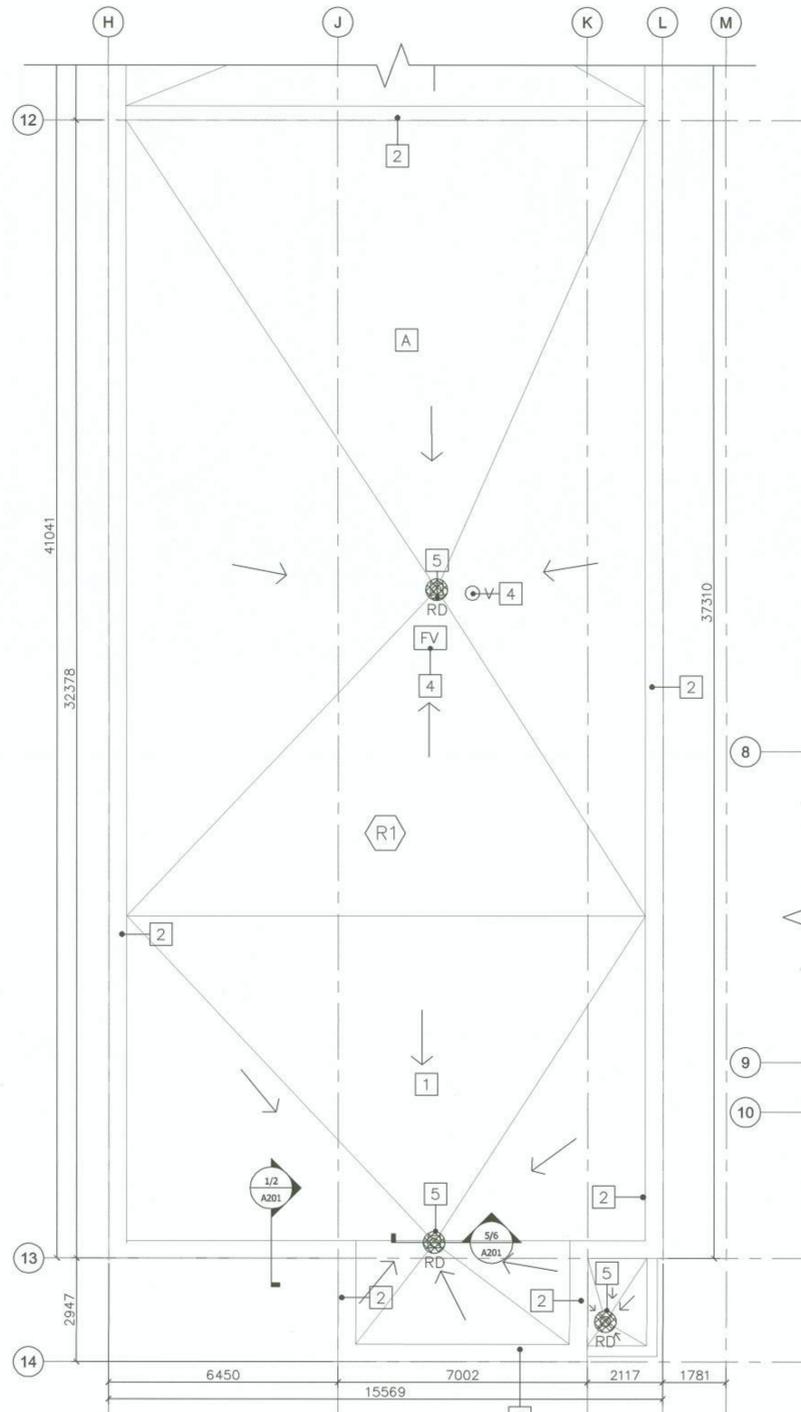
- THE CONTRACTOR SHALL COME TO TERMS WITH THE COLLECTION, HANDLING AND STORAGE OF THE EQUIPMENT AND MATERIALS, IN ACCORDANCE WITH THE INSTITUTION REGULATIONS
- ALL EXISTING ROOF MATERIALS ARE TO BE REMOVED DOWN TO EXISTING ROOF DECK - TYPICAL.
- THE CONTRACTOR SHALL ENSURE THAT THE ROOF ASSEMBLY PROVIDE THE PROPER DRAINAGE TO THE ROOF DRAIN WITH A MINIMUM SLOPE = 1:50 (2%)
- ENSURE THE EXISTING ROOF DECKING IS DRY AND HUMIDITY IN DECKING AS PER MANUFACTURER RECOMMENDATIONS BEFORE ROOF INSTALL.
- MINIMUM R30 RIGID INSULATION IF SLOPED INSULATION IS USED

NO.	BUILDING NAME
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ROOF ASSEMBLIES LEGEND

- (R1) (NEW) TYPICAL CONVENTIONAL MEMBRANE ROOF CONSTRUCTION:**
- NEW 2 PLY SBS
 - NEW 7.0mm ASPHALTIC-SUPPORT BOARD AND BASE SHEET WITH FACTORY-LAMINATED MEMBRANE.
 - NEW RIGID INSULATION:
 - *SECONDARY INSULATION: PROVIDE MINIMUM 50mm POLYISOCYANURATE INSULATION TO CONFORM TO ARCA STANDARDS.
 - *PRIMARY INSULATION: EXPANDED POLYSTYRENE INSULATION, TAPERED DESIGNED TO CREATE A MINIMUM 2% SLOPE / THICKNESS VARIES
 - NEW ROOF AIR/VAPOUR BARRIER
 - NEW 12.7mm ROOF BOARD UNDERLAYMENT C/W ADHESIVE
 - EXISTING LIGHT WEIGHT CONCRETE TOPPING TO REMAIN TO BE CLEANED AND PREPARE TO RECEIVE NEW ROOFING



KEYNOTES

- RE-ROOF WITH NEW ROOF ASSEMBLY; REFER TO ROOF ASSEMBLIES.
- INSTALL NEW CAP FLASHING ON PARAPETS TO MATCH EXISTING.
- INSTALL NEW FLASHING ON ROOF CURB.
- INSTALL NEW FLASHING; REFER TO SPECS.
- INSTALL NEW ROOF DRAIN.
- REMOVE AND REINSTALL EXISTING RADIO ANTENNA AND SECURITY CAMERA SYSTEM. CONTRACTOR TO VERIFY AND COORDINATE WITH THE APPROVAL OF CSC SUBCONTRACTOR.
- INSTALL NEW LADDER THAT MEETS OH&S STANDARDS
- INSTALL NEW SKYLIGHT
- INSTALL OVERFLOW SCUPPER
- RE-LOCATE EXISTING CONCRETE PAVERS MATCHING ORIGINAL LOCATION.
- ADD NEW ROOF DRAIN, CONTRACTOR TO REVIEW EXACT LOCATION ON SITE.
- INSTALL NEW METAL CLAMPS TO SUPPORT PIPE. QUANTITY AND SEPARATION AS PER MANUFACTURER RECOMMENDATION.

LEGEND

- V PLUMBING VENT
- DS DOWNSPOUT
- SLOPE 2%
- RD ROOF DRAIN
- ← SC SCUPPER
- CC CAPPED CURB
- RTU ROOF TOP UNIT
- FV FLUE VENT
- CA SECURITY CAMERA
- E1 ELECTRICAL CONNECTION
- △ ANTENNA
- L LADDER
- MC MECHANICAL COMPONENT

1 B21 ROOF REPLACEMENT PLAN
A106 SCALE= 1:100
B21 ADMINISTRATION BUILDING

2 B21 ROOF REPLACEMENT PLAN
A106 SCALE= 1:100
B21 ADMINISTRATION BUILDING



DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	18/03/08
2	100% REVIEW	18/02/14
1	98% REVIEW	18/01/12
0	50% REVIEW	17/12/11

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet

BOWDEN INSTITUTION BOWDEN ALBERTA A18 REPAIR AND B21 ROOF REPLACEMENTS

Approved by/Approve par
CG
Designed by/Concept par
CG
Drawn by/Dessine par
TB
PWGSC Project Manager/Administrateur de Projets TPSGC
GREG SPENCE
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC
Client/client

Drawing title/Titre du dessin

B21 EXISTING REPLACEMENT PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083696.001	A106	3



GENERAL NOTES

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- DEPARTMENTAL REPRESENTATIVE HAS FIRST RIGHT OF REFUSAL FOR SALVAGE ITEMS IN LOCATIONS SPECIFIED.

ROOF ASSEMBLIES LEGEND

- (R1) (NEW) TYPICAL CONVENTIONAL MEMBRANE ROOF CONSTRUCTION:**
- NEW 2 PLY SBS
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 - *PRIMARY INSULATION: EXPANDED POLYSTYRENE INSULATION, TAPERED DESIGNED TO CREATE A MINIMUM 2% SLOPE / THICKNESS VARIES
 - NEW ROOF AIR/VAPOUR BARRIER
 - NEW 12.7mm ROOF BOARD UNDERLAYMENT C/W ADHESIVE
 - EXISTING LIGHT WEIGHT CONCRETE TOPPING TO REMAIN TO BE CLEANED AND PREPARE TO RECEIVE NEW ROOFING

NOTE

- THE CONTRACTOR SHALL COME TO TERMS WITH THE COLLECTION, HANDLING AND STORAGE OF THE EQUIPMENT AND MATERIALS, IN ACCORDANCE WITH THE INSTITUTION REGULATIONS
- ALL EXISTING ROOF MATERIALS ARE TO BE REMOVED DOWN TO EXISTING ROOF DECK TYPICAL.
- THE CONTRACTOR SHALL ENSURE THAT THE ROOF ASSEMBLY PROVIDE THE PROPER DRAINAGE TO THE ROOF DRAIN WITH A MINIMUM SLOPE = 1:50 (2%)
- ENSURE THE EXISTING ROOF DECKING IS DRY AND HUMIDITY BEFORE ROOF INSTALL.
- MINIMUM R30 RIGID INSULATION IF SLOPED INSULATION IS USED

NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



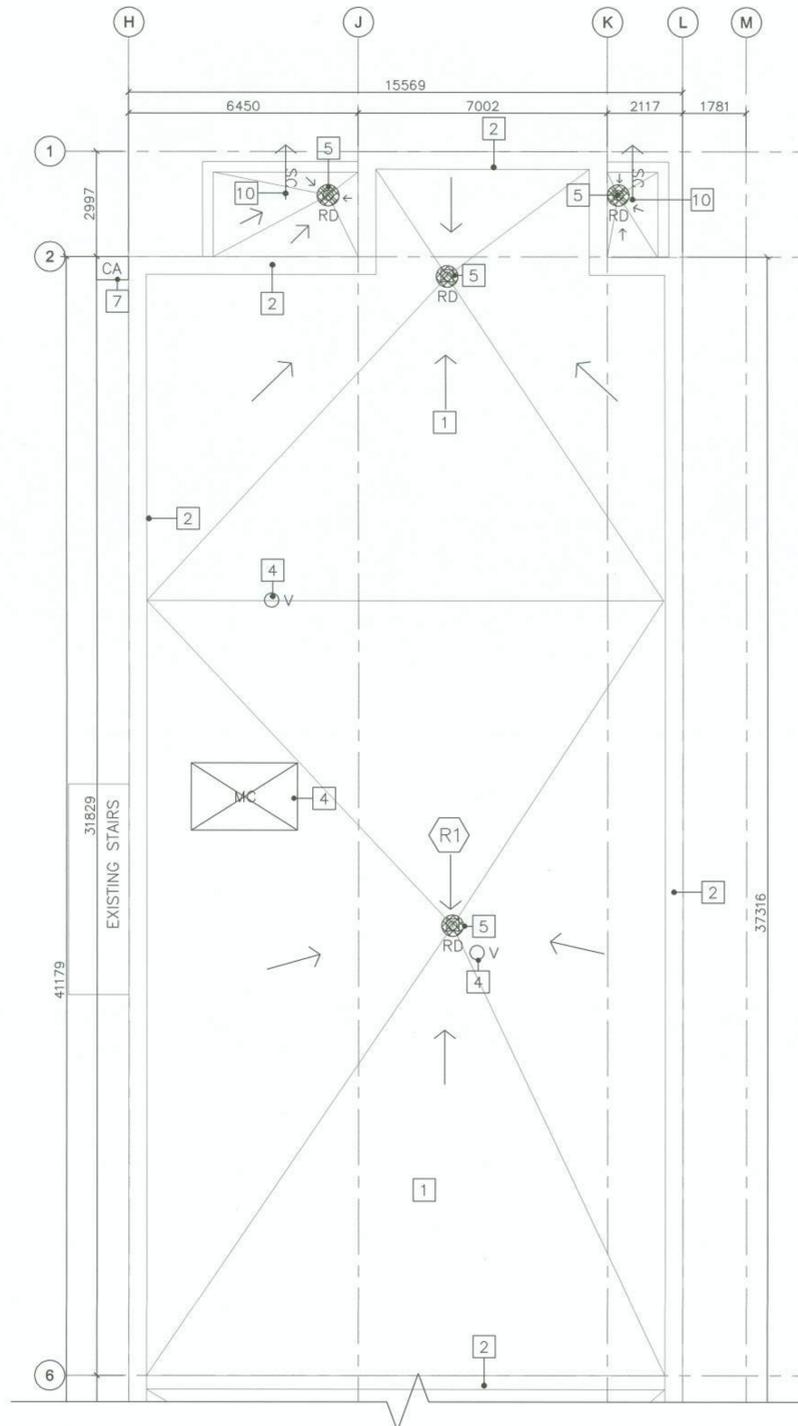
KEY PLAN

KEYNOTES

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LEGEND

- V PLUMBING VENT
- DS DOWNSPOUT
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- ← SC SCUPPER
- CC CAPPED CURB
- RTU ROOF TOP UNIT
- FV FLUE VENT
- CA SECURITY CAMERA
- E1 ELECTRICAL CONNECTION
- △ ANTENNA
- L LADDER
- MC MECHANICAL COMPONENT



3 B21 ROOF REPLACEMENT PLAN

A107 SCALE= 1:100

B21 ADMINISTRATION BUILDING



DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	18/03/08
2	100% REVIEW	18/02/14
1	90% REVIEW	18/01/12
0	50% REVIEW	17/12/11

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet

BOWDEN INSTITUTION BOWDEN, ALBERTA A18 REPAIR AND B21 ROOF REPLACEMENTS

Approved by/Approuvé par
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Designed by/Concept par
CG

Drawn by/Dessiné par
TB

PWSC Project Manager/Administrateur de Projets TPSGC
GREG SPENCE

PWSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client

Drawing title/Titre du dessin

B21 EXISTING REPLACEMENT PLAN

Project No./No. du projet
R.083696.001

Sheet/Feuille
A107
OF 13

Revision no./
La Révision no.
3

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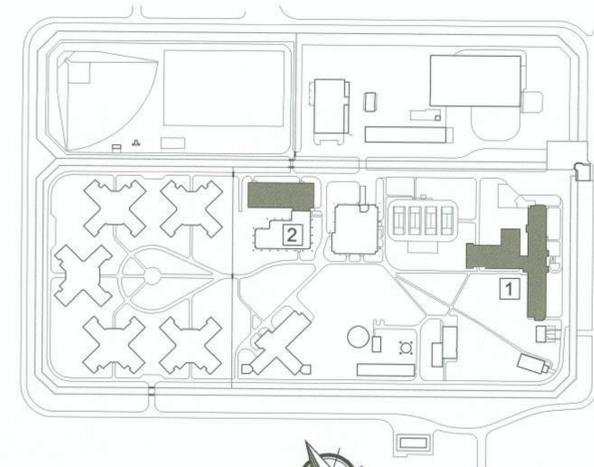
ROOF ASSEMBLIES LEGEND

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NOTE

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- MINIMUM R30 RIGID INSULATION IF SLOPED INSULATION IS USED

NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



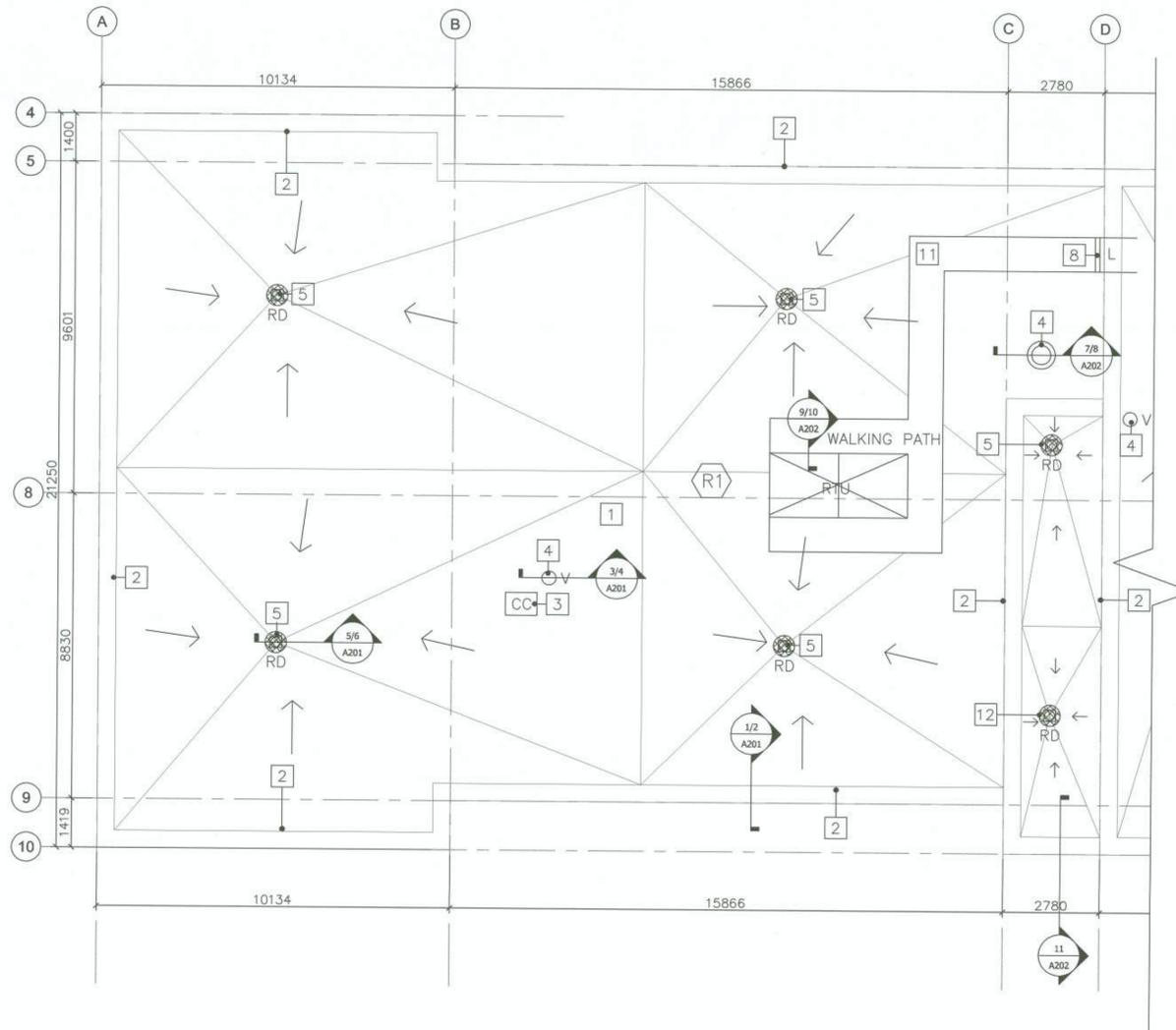
KEY PLAN

KEYNOTES

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- INSTALL NEW METAL CLAMPS TO SUPPORT PIPE. QUANTITY AND SEPARATION AS PER MANUFACTURER RECOMMENDATION.

LEGEND

- PLUMBING VENT
- DOWNSPOUT
- SLOPE 2%
- ROOF DRAIN
- SCUPPER
- CAPPED CURB
- ROOF TOP UNIT
- FLUE VENT
- SECURITY CAMERA
- ELECTRICAL CONNECTION
- ANTENNA
- LADDER
- MECHANICAL COMPONENT



4
A108 **B21 REPLACEMENT ROOF**
SCALE= 1:100

B21 ADMINISTRATION BUILDING



0 10 20 30 40 50 60 70 80 90 100mm



DO NOT SCALE DRAWINGS

Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	18/03/09
2	100% REVIEW	18/02/14
1	99% REVIEW	18/01/12
0	50% REVIEW	17/12/1

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet

BOWDEN INSTITUTION BOWDEN ALBERTA A18 REPAIR AND B21 ROOF REPLACEMENTS

Approved by/Approve par

CG

Designed by/Concept par

CG

Drawn by/Dessine par

TB

PWGC Project Manager/Administrateur de Projets TPSGC

GREG SPENCE

PWGC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client

Drawing title/Titre du dessin

B21 EXISTING REPLACEMENT PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083696.001	A108	3
	OF 13	

GENERAL NOTES

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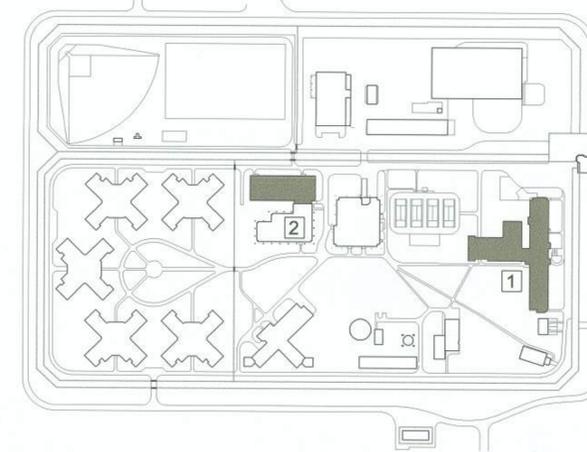
ROOF ASSEMBLIES LEGEND

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NOTE

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- ENSURE THE EXISTING ROOF DECKING IS DRY AND HUMIDITY BEFORE ROOF INSTALL.
- MINIMUM R30 RIGID INSULATION IF SLOPED INSULATION IS USED

NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



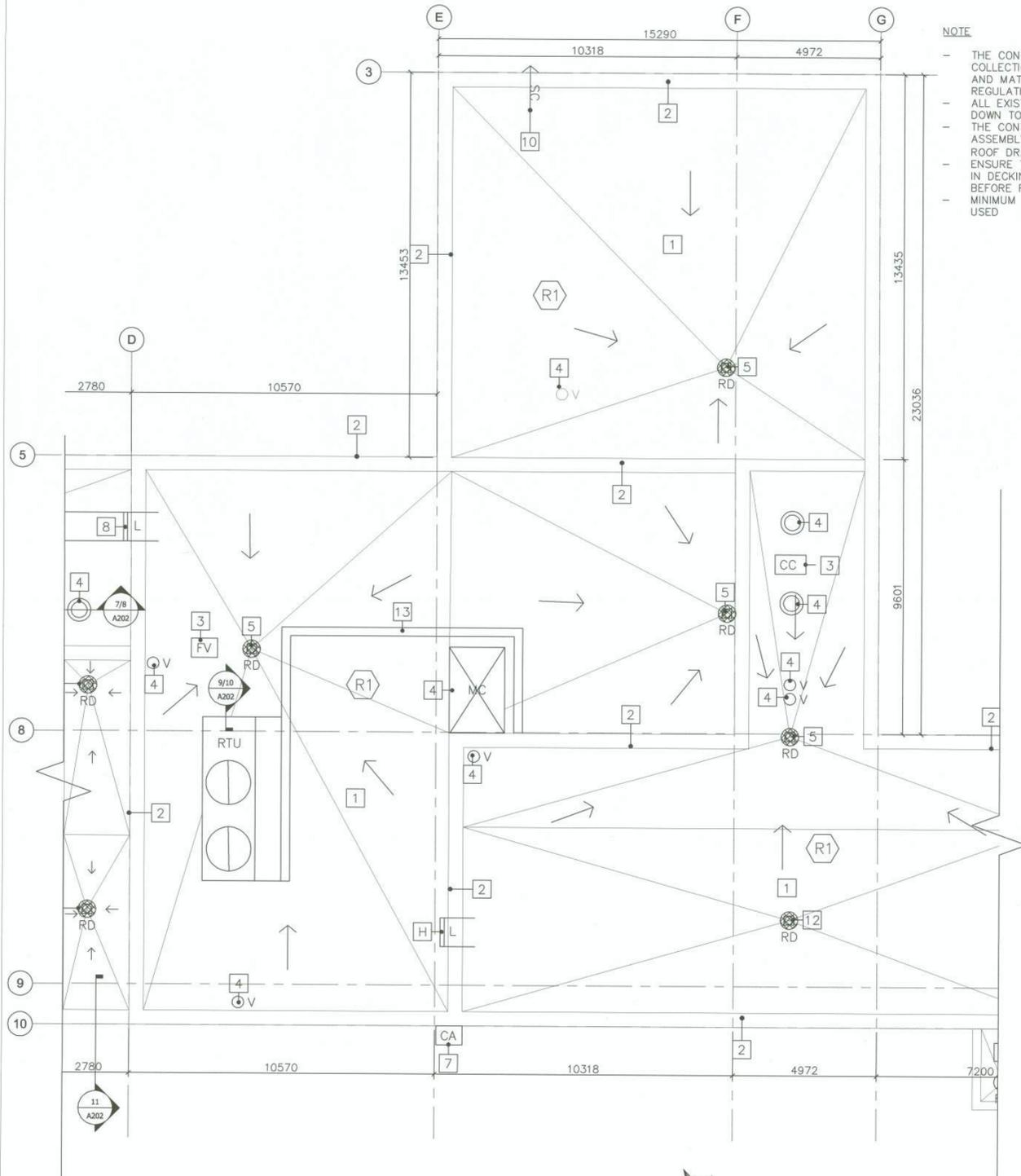
KEY PLAN

KEYNOTES

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- INSTALL NEW METAL CLAMPS TO SUPPORT PIPE. QUANTITY AND SEPARATION AS PER MANUFACTURER RECOMMENDATION.

LEGEND

- V PLUMBING VENT
- DS DOWNSPOUT
- SLOPE 2%
- RD ROOF DRAIN
- ← SC SCUPPER
- CC CAPPED CURB
- RTU ROOF TOP UNIT
- FV FLUE VENT
- CA SECURITY CAMERA
- E1 ELECTRICAL CONNECTION
- △ ANTENNA
- L LADDER
- MC MECHANICAL COMPONENT



5 B21 ROOF REPLACEMENT PLAN

A109 SCALE= 1:100

B21 ADMINISTRATION BUILDING



DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	18/03/09
2	100% REVIEW	18/02/14
1	99% REVIEW	18/01/12
0	50% REVIEW	17/12/1

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project Title/Titre du projet

**BOWDEN INSTITUTION
 BOWDEN, ALBERTA
 A18 REPAIR AND B21 ROOF
 REPLACEMENTS**

Approved by/Approve par
CG
 Designed by/Concept par
CG
 Drawn by/Dessine par
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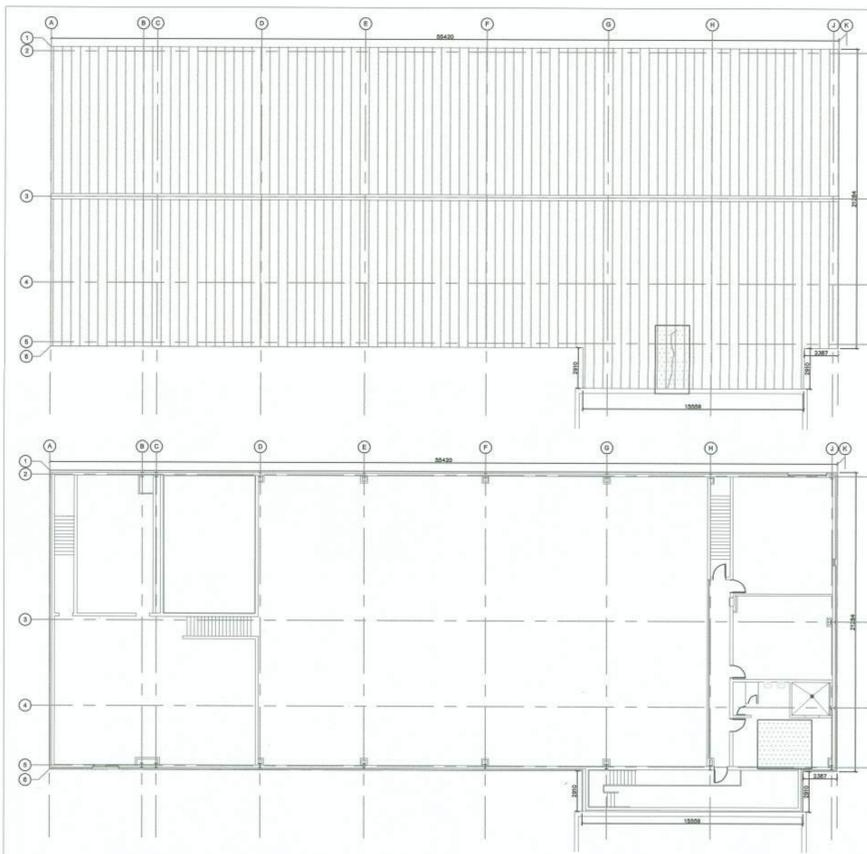
Client/client

Drawing Title/Titre du dessin

B21 EXISTING REPLACEMENT PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083696.001	A109	3





1 A18 KEY ROOF PLAN
A108 SCALE= 1:250
A18 GYMNASIUM BUILDING

DEMO KEYNOTES

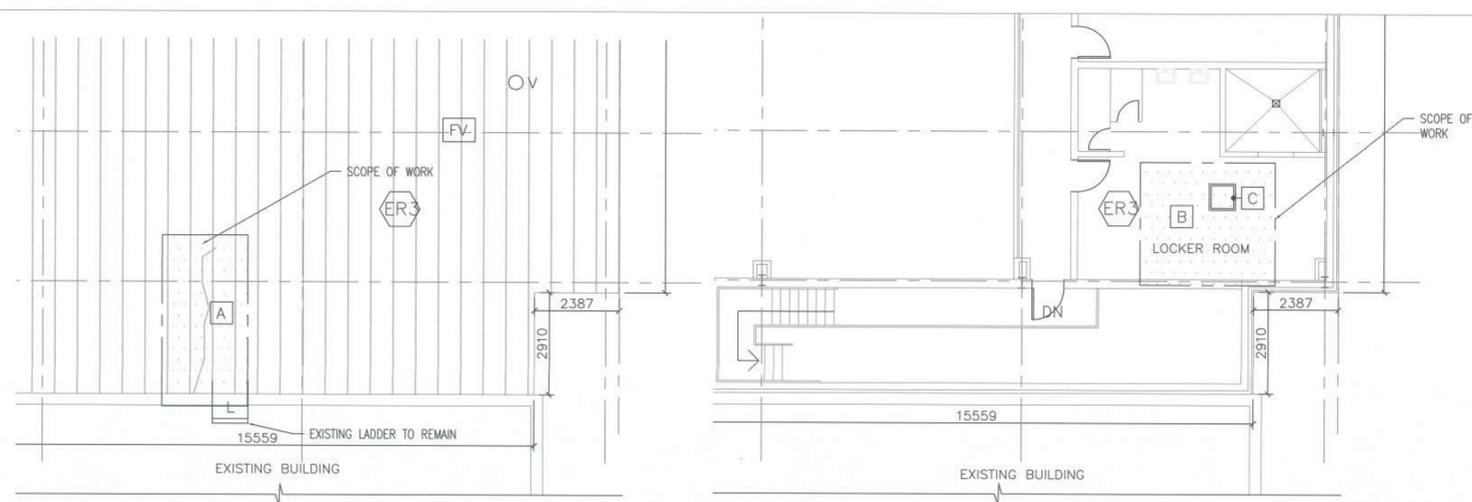
- A REMOVE EXISTING ROOF SYSTEM DOWN TO EXISTING ROOF DECK TYPICAL.
- B REMOVE EXISTING DAMAGED GYPSUM CEILING BOARD AS RESULT FROM LEAKAGE
- C REMOVE EXISTING CEILING HATCH

REPLACEMENT KEYNOTES

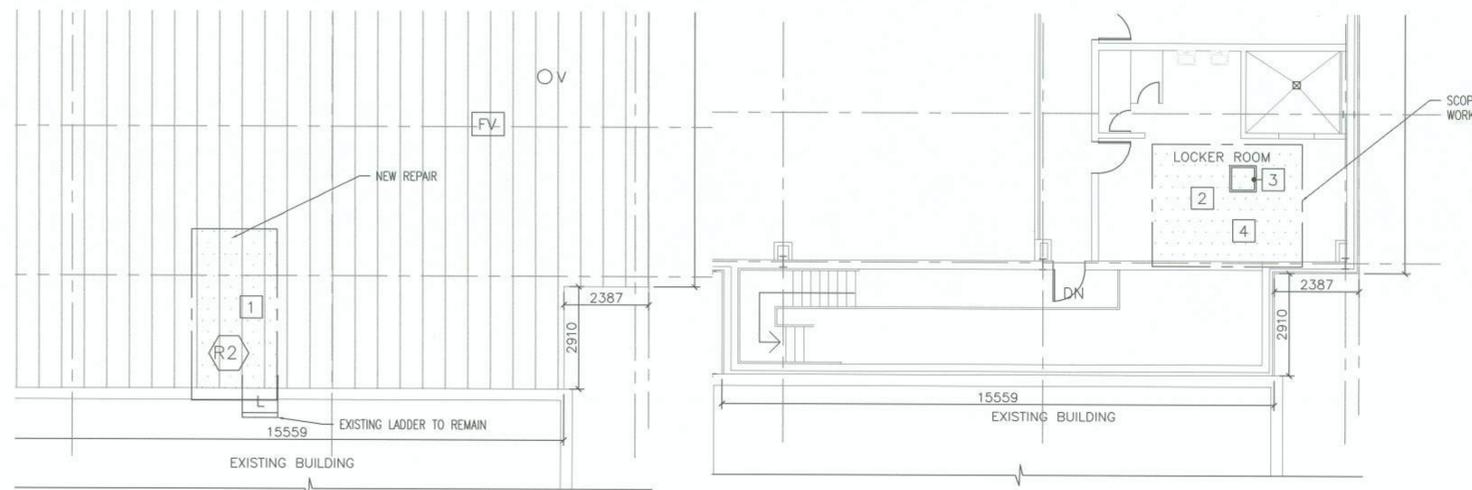
- 1 INSTALL NEW PORTION OF ROOF SYSTEM DOWN TO EXISTING ROOF DECK, MATCH EXISTING
- 2 INSTALL NEW GYPSUM CEILING BOARD
- 3 INSTALL NEW CEILING HATCH
- 4 CONFIRM IF REPAIRS ARE NEEDED FOR STRUCTURAL STEEL OR STEEL STUD FRAMING.

LEGEND

- V PLUMBING VENT
- CC CAPPED CURB
- RTU ROOF TOP UNIT
- FV FLUE VENT
- FAN
- L LADDER
- MC MECHANICAL COMPONENT
- EXISTING ROOF
- WORK AREA



2 EXISTING ENLARGED A18 ROOF AND LOCKER ROOM PLAN
A108 SCALE= 1:100



3 REPLACEMENT ENLARGED A18 ROOF AND LOCKER ROOM PLAN
A108 SCALE= 1:100

GENERAL NOTES

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NOTE

- ALL EXISTING ROOF MATERIALS ARE TO BE REMOVED DOWN TO EXISTING CONCRETE ROOF DECK.
- MECHANICAL EQUIPMENT TO BE LIFTED TO ENSURE THE PROPER WATERPROOFING ON THE CURBS.
- MINIMUM INSULATION THICKNESS OF R-30 IS REQUIRED ON BOTH BUILDINGS, CONTRACTOR TO ENSURE A MINIMUM OF R-20 ROOF INSULATION IS MAINTAINED AT ALL PENETRATIONS.

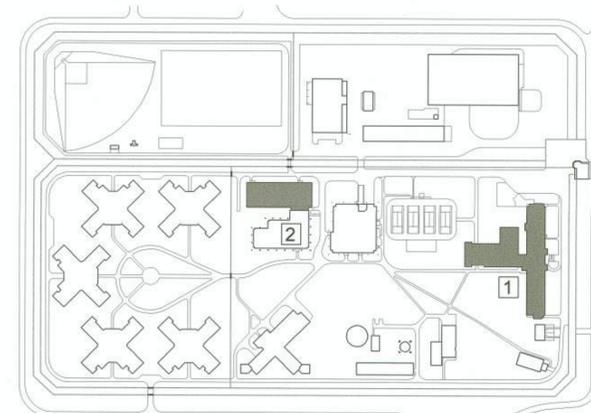
ROOF ASSEMBLIES LEGEND

- ER3 EXISTING STANDING SEAM METAL ROOF
 - ALUMINUM ROOF PANELING TO BE REMAINED
 - RIGID INSULATION TO BE REMAINED
 - WATER AND VAPOUR BARRIER TO BE REMAINED
 - SUBSTRATE MATERIAL TO BE REMAINED
 - STEEL DECKING TO BE REMAINED

ROOF ASSEMBLIES LEGEND

- R2 PATCH EXISTING STANDING SEAM METAL ROOF
 - NEW ALUMINUM ROOF PANELING PORTION
 - NEW RIGID INSULATION PORTION
 - NEW VAPOUR BARRIER PORTION
 - NEW SUBSTRATE MATERIAL PORTION
 - STEEL DECKING TO BE REMAINED

NO.	BUILDING NAME
1	B21 ADMINISTRATION BUILDING
2	A18 GYMNASIUM BUILDING



KEY PLAN



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Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	18/03/09
2	100% REVIEW	18/02/14
1	99% REVIEW	18/01/12
0	50% REVIEW	17/12/1

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet

**BOWDEN INSTITUTION
BOWDEN ALBERTA
A18 AND B21 ROOF
REPLACEMENTS**

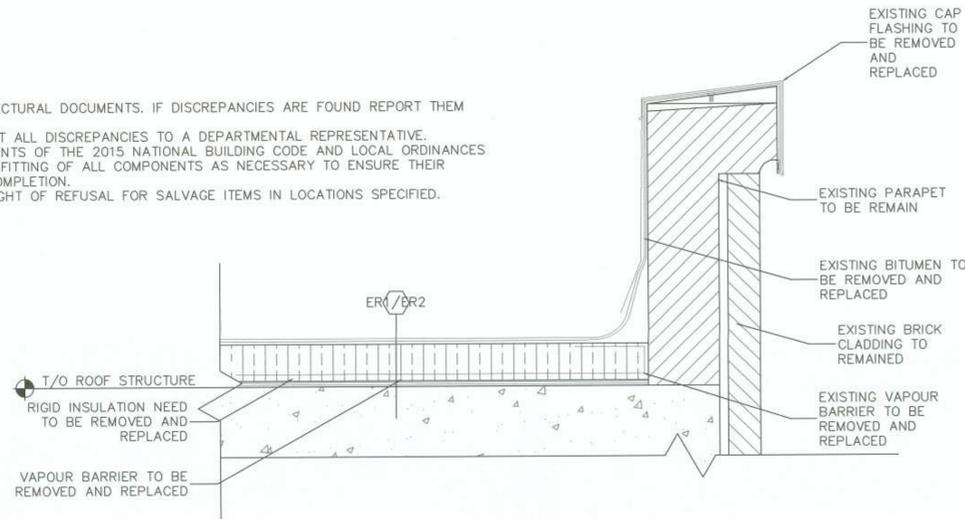
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Client/client
Drawing title/Titre du dessin

A18 EXISTING AND REPLACEMENT PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./Lo Révision
R.083696.001	A110	3
	OF 13	

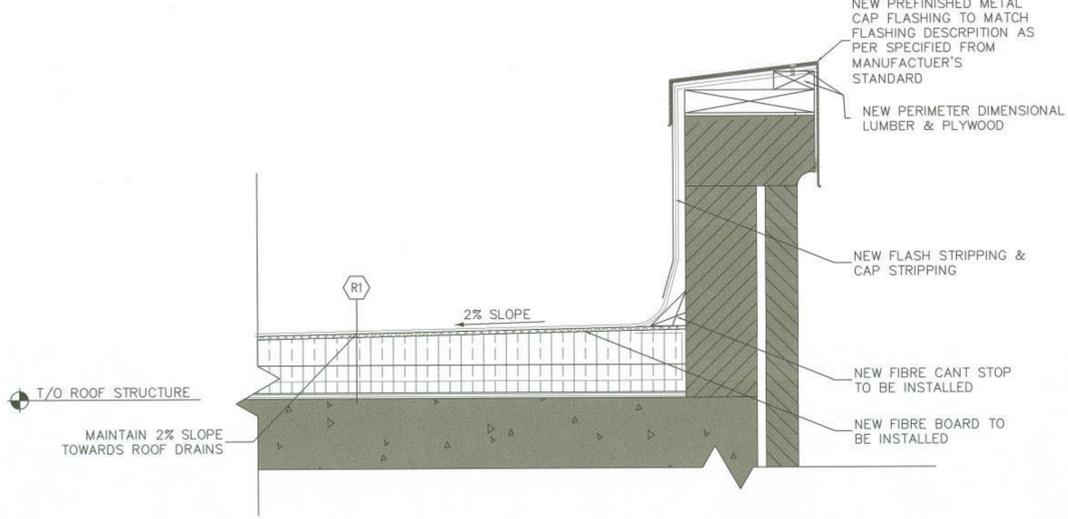
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1 EXISTING ROOF SECTION
A201 SCALE= 1:10

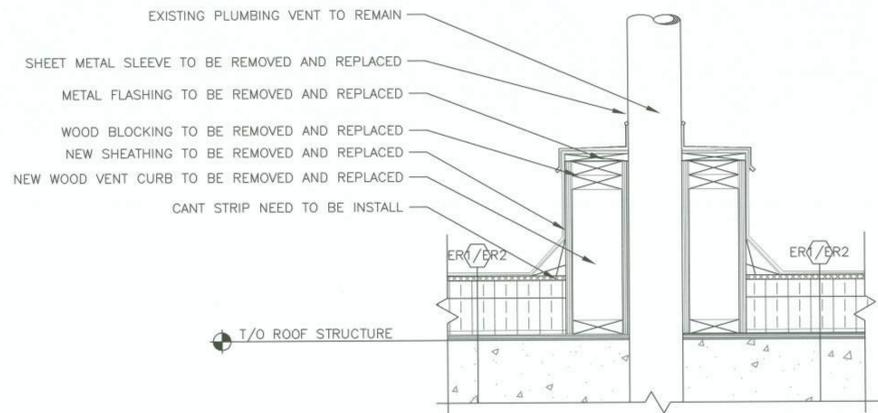
- ER1 EXISTING SBS ROOF SYSTEM
- EXISTING BITUMEN & REINFORCING FABRIC LAYER TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 38mm INSULATION TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 100mm RIGID INSULATION TO BE REMOVED
 - EXISTING VAPOUR BARRIER TO BE REMOVED
 - EXISTING ROOF DECK TO REMAIN



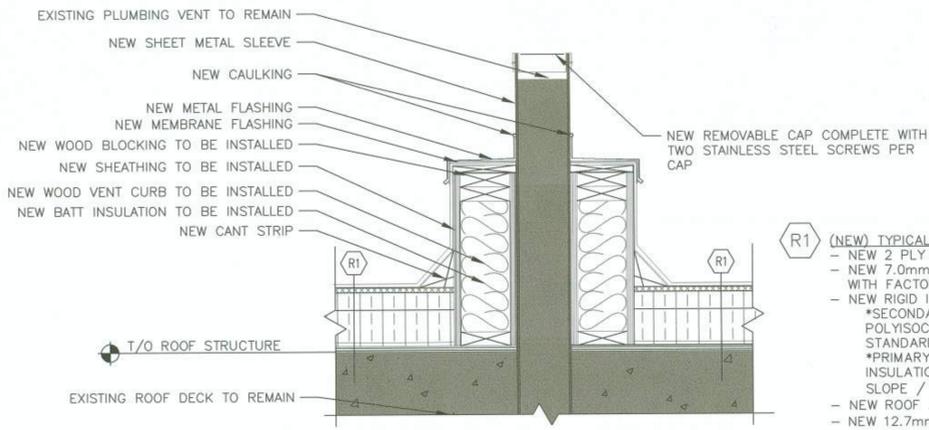
2 NEW ROOF SECTION
A201 SCALE= 1:10

- NOTE
- ALL EXISTING ROOF MATERIALS ARE TO BE REMOVED DOWN TO EXISTING ROOF DECK.
 - REPLACE OR REPAIR ALL PARAPETS AND CAP METAL FLASHINGS.
 - MECHANICAL EQUIPMENT TO BE LIFTED TO ENSURE THE PROPER WATERPROOFING ON THE CURBS.
 - MINIMUM INSULATION THICKNESS OF R-30 IS REQUIRED ON BOTH BUILDINGS, CONTRACTOR TO ENSURE A MINIMUM OF R-20 ROOF INSULATION IS MAINTAINED AT ALL PENETRATIONS.

- ER2 EXISTING BUILT UP ROOF SYSTEM
- EXISTING ASPHALT AND GRAVEL TO BE REMOVED
 - EXISTING 4 PLY ROOFING FELT TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 3 PLY FELT & HOT ASPHALT VAPOUR RETARDANT TO BE REMOVED
 - EXISTING 100mm RIGID INSULATION TO BE REMOVED
 - EXISTING VAPOUR BARRIER TO BE REMOVED
 - EXISTING ROOF DECK TO REMAIN

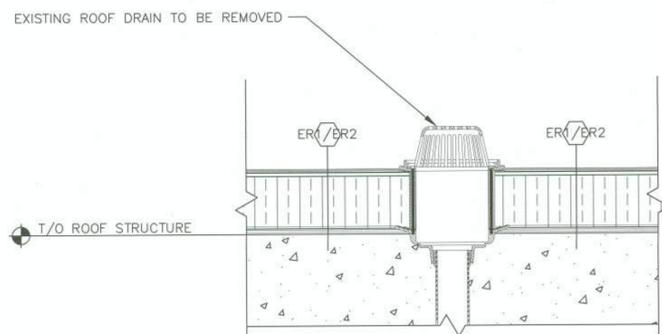


3 EXISTING PLUMBING VENT SECTION
A201 SCALE= 1:10

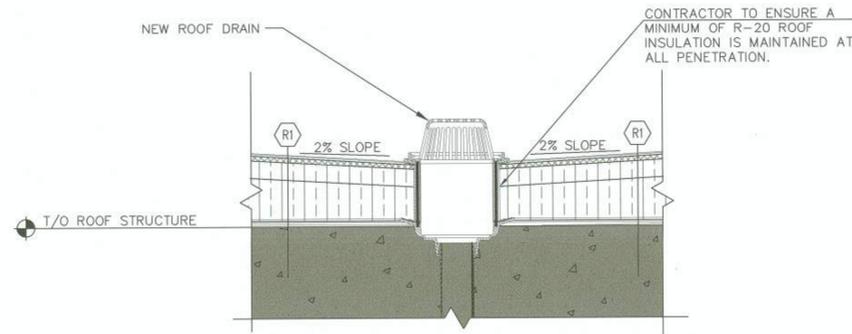


4 NEW PLUMBING VENT SECTION
A201 SCALE= 1:10

- R1 (NEW) TYPICAL CONVENTIONAL MEMBRANE ROOF CONSTRUCTION:
- NEW 2 PLY SBS
 - NEW 7.0mm ASPHALTIC-SUPPORT BOARD AND BASE SHEET WITH FACTORY-LAMINATED MEMBRANE.
 - NEW RIGID INSULATION:
 - *SECONDARY INSULATION: PROVIDE MINIMUM 50mm POLYISOCYANURATE INSULATION TO CONFORM TO ARCA STANDARDS.
 - *PRIMARY INSULATION: EXPANDED POLYSTYRENE INSULATION, TAPERED DESIGNED TO CREATE A MINIMUM 2% SLOPE / THICKNESS VARIES
 - NEW ROOF AIR/VAPOUR BARRIER
 - NEW 12.7mm ROOF BOARD UNDERLAYMENT C/W ADHESIVE
 - EXISTING LIGHT WEIGHT CONCRETE TOPPING TO REMAIN TO BE CLEANED AND PREPARE TO RECEIVE NEW ROOFING



5 EXISTING ROOF DRAIN TYP. SECTION
A201 SCALE= 1:10



6 NEW ROOF DRAIN TYP. SECTION
A201 SCALE= 1:10



DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	18/03/09
2	100% REVIEW	18/02/14
1	99% REVIEW	18/01/12
0	50% Review	17/12/1

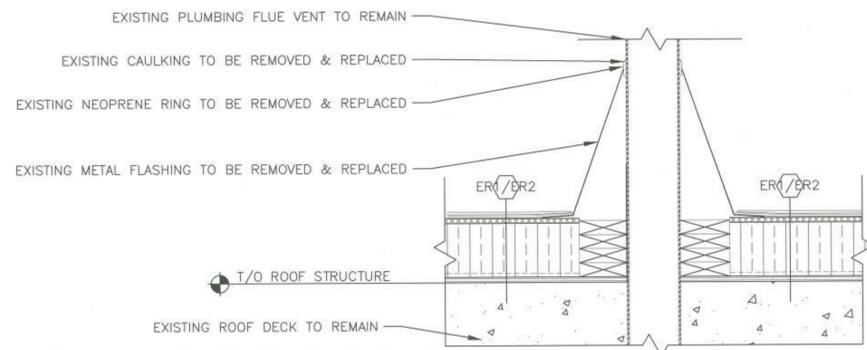
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

BOWDEN INSTITUTION BOWDEN, ALBERTA A18 REPAIR AND B21 ROOF REPLACEMENTS

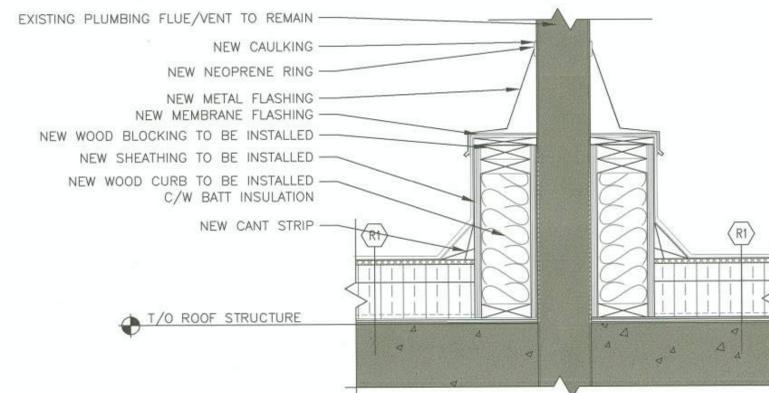
Approved by/Approve par: CG
 Designed by/Concept par: CG
 Drawn by/Dessine par: TB
 PWGSC Project Manager/Administrateur de Projets TPSGC: GREG SPENCE
 PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

B21 ROOF DETAILS EXISTING & NEW (SBS)

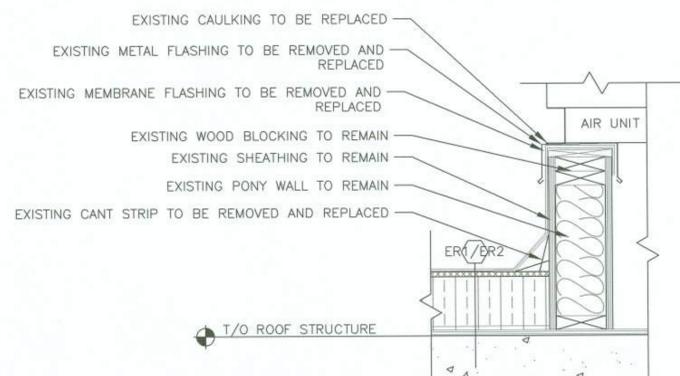
Project No./No. du projet: R.083696.001	Sheet/Feuille: A201 OF 13	Revision no./La Révision no.: 3
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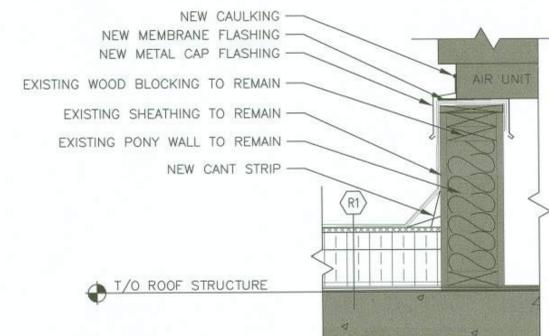
7 EXISTING FLUE VENT TYP. SECTION
A202 SCALE= 1:10



8 NEW FLUE VENT TYP. SECTION
A202 SCALE= 1:10



9 EXISTING RTU CURB TYP. SECTION
A202 SCALE= 1:10



10 NEW RTU CURB TYP. SECTION
A202 SCALE= 1:10

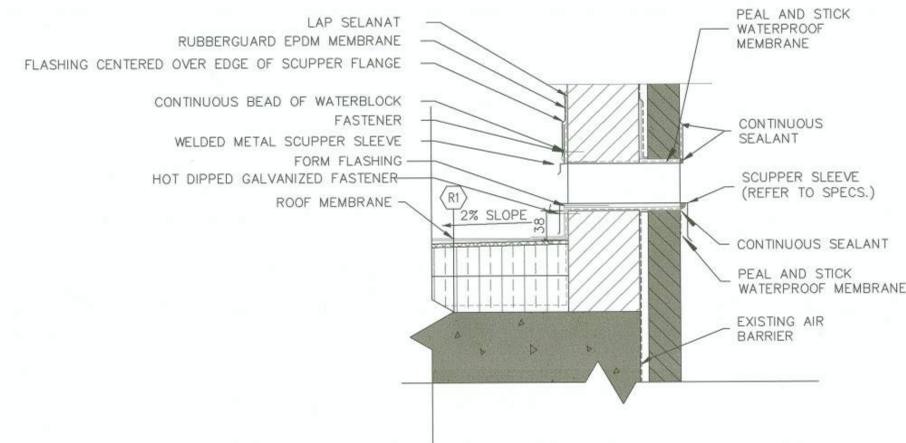
- ER1 EXISTING SBS ROOF SYSTEM
- EXISTING BITUMEN & REINFORCING FABRIC LAYER TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 38mm INSULATION TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 100mm RIGID INSULATION TO BE REMOVED
 - EXISTING VAPOUR BARRIER TO BE REMOVED
 - EXISTING ROOF DECK TO REMAIN

- R1 (NEW) TYPICAL CONVENTIONAL MEMBRANE ROOF CONSTRUCTION:
- NEW 2 PLY SBS
 - NEW 7.0mm ASPHALTIC-SUPPORT BOARD AND BASE SHEET WITH FACTORY-LAMINATED MEMBRANE.
 - NEW RIGID INSULATION:
 - *SECONDARY INSULATION: PROVIDE MINIMUM 50mm POLYSOCYANURATE INSULATION TO CONFORM TO ARCA STANDARDS.
 - *PRIMARY INSULATION: EXPANDED POLYSTYRENE INSULATION, TAPERED DESIGNED TO CREATE A MINIMUM 2% SLOPE / THICKNESS VARIES
 - NEW ROOF AIR/VAPOUR BARRIER
 - NEW 12.7mm ROOF BOARD UNDERLAYMENT C/W ADHESIVE
 - EXISTING LIGHT WEIGHT CONCRETE TOPPING TO REMAIN TO BE CLEANED AND PREPARE TO RECEIVE NEW ROOFING

- ER2 EXISTING BUILT UP ROOF SYSTEM
- EXISTING ASPHALT AND GRAVEL TO BE REMOVED
 - EXISTING 4 PLY ROOFING FELT TO BE REMOVED
 - EXISTING 12.7mm FIBREBOARD TO BE REMOVED
 - EXISTING 3 PLY FELT & HOT ASPHALT VAPOUR RETARDANT TO BE REMOVED
 - EXISTING 100mm RIGID INSULATION TO BE REMOVED
 - EXISTING VAPOUR BARRIER TO BE REMOVED
 - EXISTING ROOF DECK TO REMAIN

NOTE

- ALL EXISTING ROOF MATERIALS ARE TO BE REMOVED DOWN TO EXISTING ROOF DECK.
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11 NEW SECONDARY SCUPPER TYP. SECTION
A202 SCALE= 1:10

GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- CO-ORDINATE INFORMATION FROM ALL ARCHITECTURAL DOCUMENTS. IF DISCREPANCIES ARE FOUND REPORT THEM TO THE DEPARTMENTAL REPRESENTATIVE.
- CONFIRM ALL DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO A DEPARTMENTAL REPRESENTATIVE.
- ALL WORK IS TO COMPLY WITH THE REQUIREMENTS OF THE 2015 NATIONAL BUILDING CODE AND LOCAL ORDINANCES
- CO-ORDINATE DIMENSIONS REQUIRED FOR THE FITTING OF ALL COMPONENTS AS NECESSARY TO ENSURE THEIR SOUND INSTALLATION AND OPERATION UPON COMPLETION.
- DEPARTMENTAL REPRESENTATIVE HAS FIRST RIGHT OF REFUSAL FOR SALVAGE ITEMS IN LOCATIONS SPECIFIED.

DO NOT SCALE DRAWINGS

Revision/	Description/Description	Date/Date
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2	100% REVIEW	18/02/14
1	99% REVIEW	18/01/12
0	50% REVIEW	17/12/11

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet

BOWDEN INSTITUTION
BOWDEN, ALBERTA
A18 REPAIR AND B21 ROOF REPLACEMENTS

Approved by/Approuve par
CG

Designed by/Concept par
CG

Drawn by/Dessiné par
TB

PWGSC Project Manager/Administrateur de Projets TPSGC
GREG SPENCE

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client

Drawing title/Titre du dessin

B21 ROOF DETAILS
EXISTING & NEW (SBS)

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083696.001	A202 OF 13	3