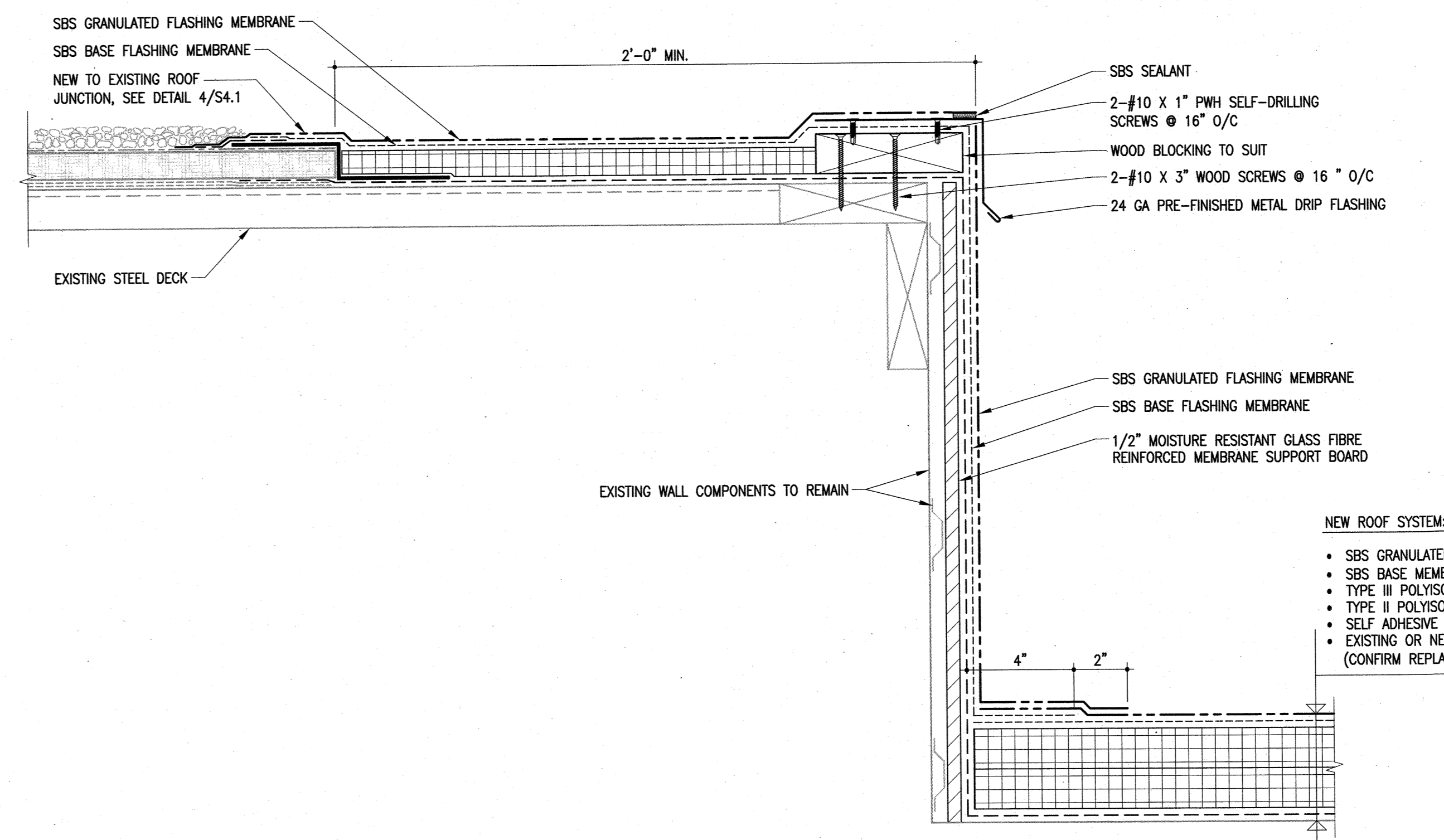


1 SECTION - COLUMN REPLACEMENT
 S2.1 S4.1 1/2" = 1'-0"

NOTE: CONTRACTOR TO PROVIDE SEPARATE UNIT PRICES FOR COLUMN WELDED REPAIRS WITH AND WITHOUT CONCRETE REPLACEMENT WORK FOR REPAIRS LOCATED ABOVE GRADE.

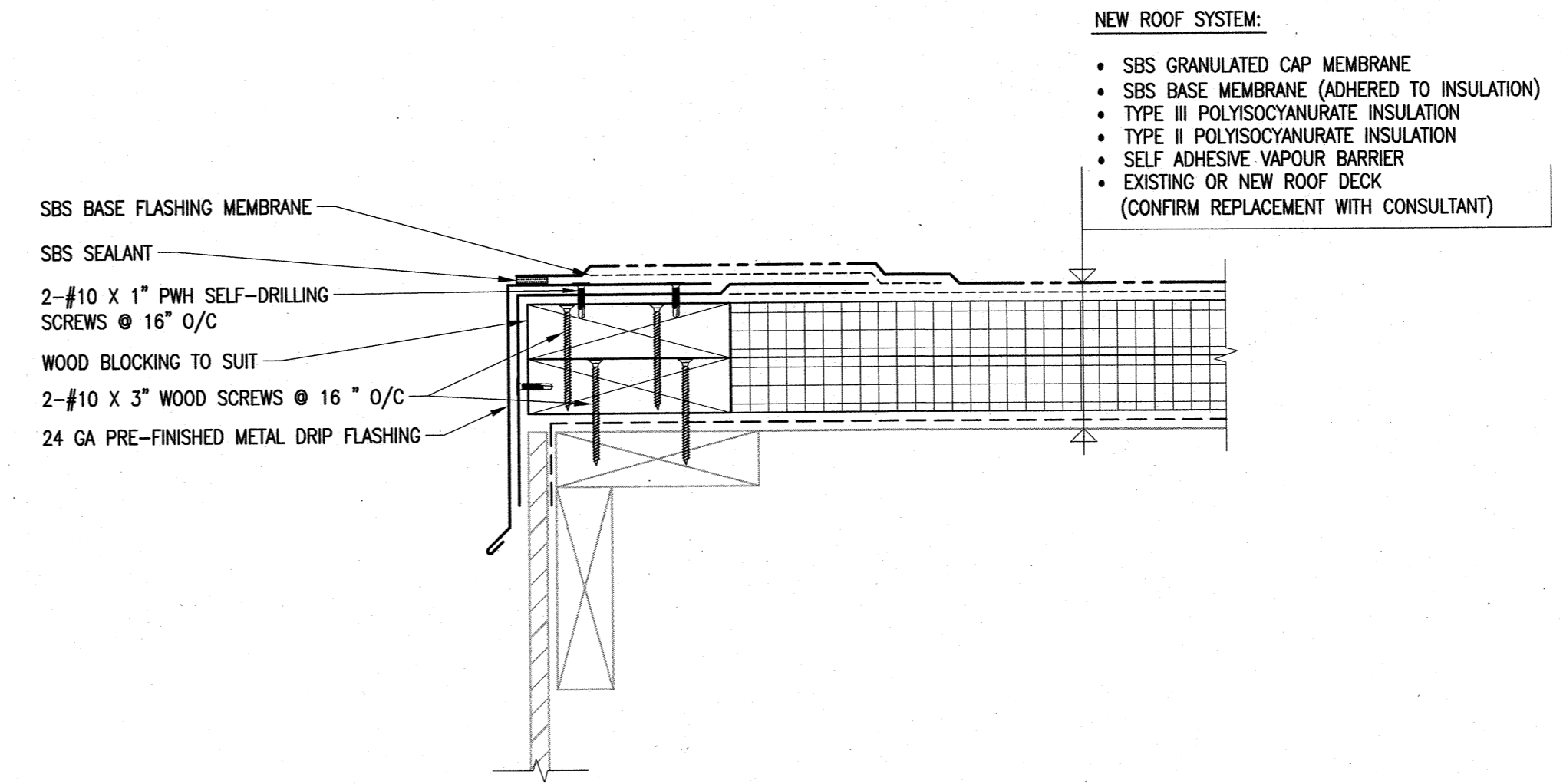
SCOPE OF WORK - COLUMN REPLACEMENT

1. THE CITY TO REMOVE, CAP OFF, AND REINSTALL EXISTING SERVICES ATTACHED TO DAMAGED COLUMN.
2. ENSURE SHORING POSTS ARE TIGHT PRIOR TO BEGINNING WORK.
3. BREAK OUT CONCRETE AROUND BASE OF EXISTING COLUMN TO EXPOSE TOP OF PILE BENEATH.
4. REMOVE EXISTING COLUMN AND REPLACE WITH NEW HSS 6X6X0.25 COLUMN C/W 4-3/4" x 6" EMBEDDED ANCHOR BOLTS AND HILTI HY 200 GROUT. BASE PLATE TO BE 10" x 10" x 3/4" THICK AND SET ON 1" GROUT. COLUMN IS TO ARRIVE WITH TOP PLATE SIZED AND PRE-DRILLED TO MATCH EXISTING TO BOLT TO BOTTOM FLANGE OF ROOF BEAM.
5. NEW COLUMN TO ARRIVE WITH TWO COATS OF GREY SHOP PRIMER WITH THE BOTTOM 10' HAVING TWO COATS OF SAFETY YELLOW PAINT.
6. BASE PLATE AND BOTTOM PORTION OF COLUMN TO BE COATED IN LIQUID-APPLIED WATERPROOFING MEMBRANE. MEMBRANE IS TO EXTEND TO JUST ABOVE FINISHED SLAB ELEVATION.
7. INFILL SLAB AROUND COLUMN TO MATCH ADJACENT FINISHES.



2 TYPICAL WALL DETAIL
 S4.1 3" = 1'-0"

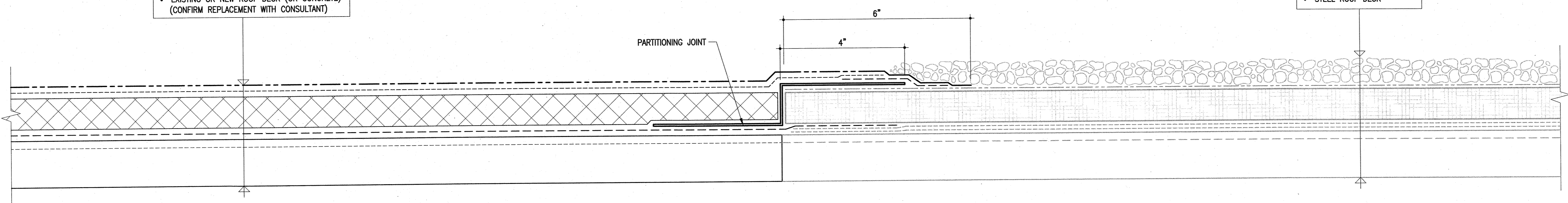
- NEW ROOF SYSTEM:**
- SBS GRANULATED CAP MEMBRANE
 - SBS BASE MEMBRANE (ADHERED TO INSULATION)
 - TYPE III POLYISOCYANURATE INSULATION
 - TYPE II POLYISOCYANURATE INSULATION
 - SELF ADHESIVE VAPOUR BARRIER
 - EXISTING OR NEW ROOF DECK (CONFIRM REPLACEMENT WITH CONSULTANT)



3 TYPICAL EDGE DETAIL
 S4.1 3" = 1'-0"

- NEW ROOF SYSTEM: R1**
- SBS GRANULATED CAP MEMBRANE
 - SBS BASE MEMBRANE (ADHERED TO INSULATION)
 - TYPE III POLYISOCYANURATE INSULATION
 - TYPE II POLYISOCYANURATE INSULATION
 - SELF ADHESIVE VAPOUR BARRIER
 - EXISTING OR NEW ROOF DECK (OR CONCRETE) (CONFIRM REPLACEMENT WITH CONSULTANT)

- EXISTING ROOF SYSTEM**
- GRAVEL BALLAST
 - 4 PLY ASPHALTIC MEMBRANE
 - 1" FIBREBOARD INSULATION
 - FELT VAPOUR RETARDER
 - STEEL ROOF DECK



4 ROOF JUNCTION DETAIL
 S4.1 6" = 1'-0"

The General Contractor shall check & verify all dimensions and report any errors or omissions to the designers.

No.	Date	Issue/Revision	By
1	2018-06-18	RE-ISSUED FOR CONSTRUCTION	IM
0	2018-06-11	ISSUED FOR CONSTRUCTION	IM

APEGM
 Certificate of Authorization
 Crosier Kilgour & Partners Ltd.
 No. 235 Date: 2018-06-18

PROVINCE OF MANITOBA
I. MINENKOV
 Member
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 CONSULTING STRUCTURAL ENGINEERS

Project
WINNIPEG TRANSIT
 2018 STRUCTURAL AND ROOFING REPAIRS
 1520 MAIN STREET
 WINNIPEG, MANITOBA

Sheet Title
SECTIONS AND DETAILS

File	2018-0145	Date	2018-06-18
Design	IM	Drawn	DNM

Revision	Sheet No.
1	S4.1