

Attachment #1 – Project Drawings

Roof Replacement – Queen Alexandra Community Centre

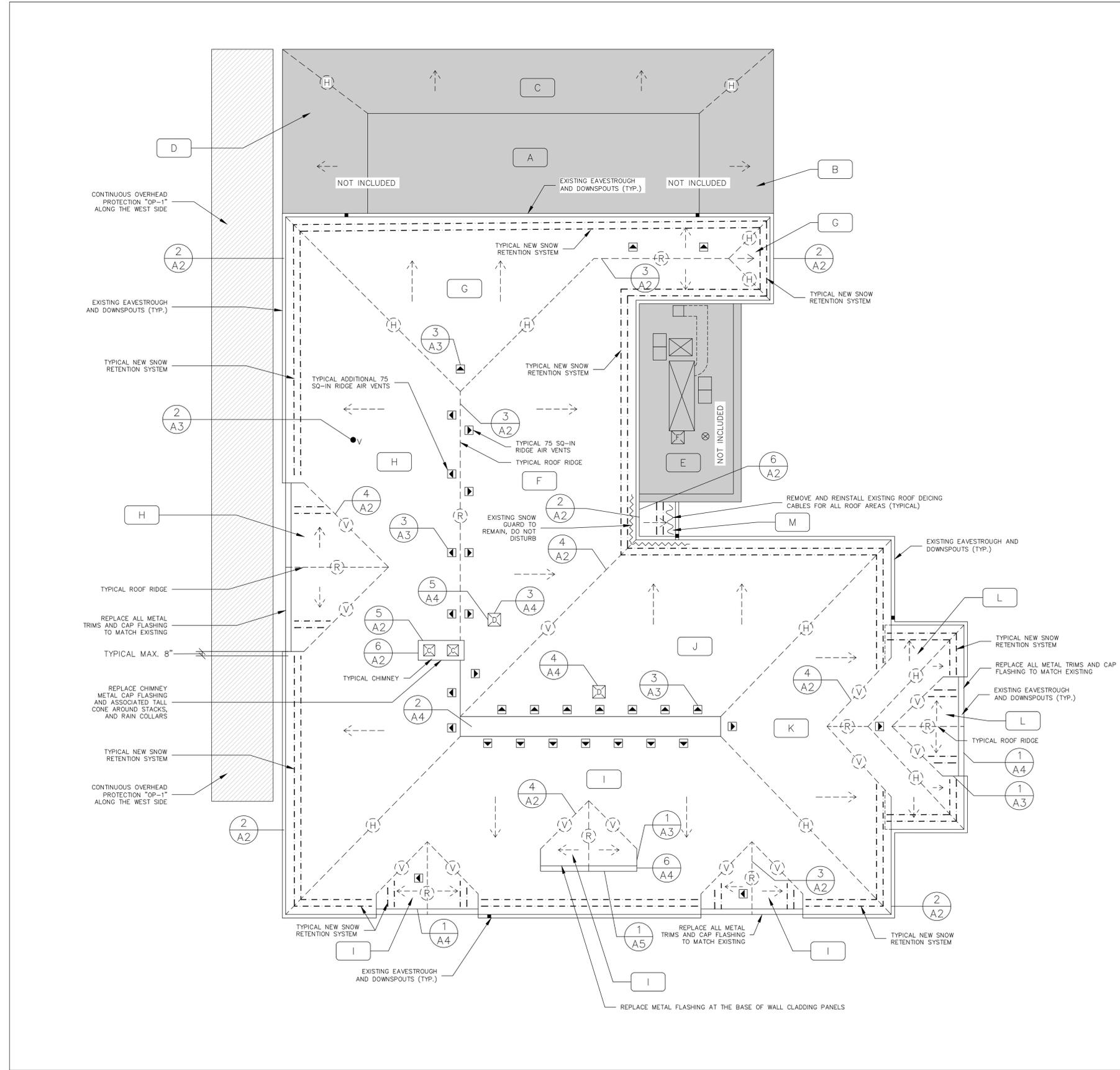
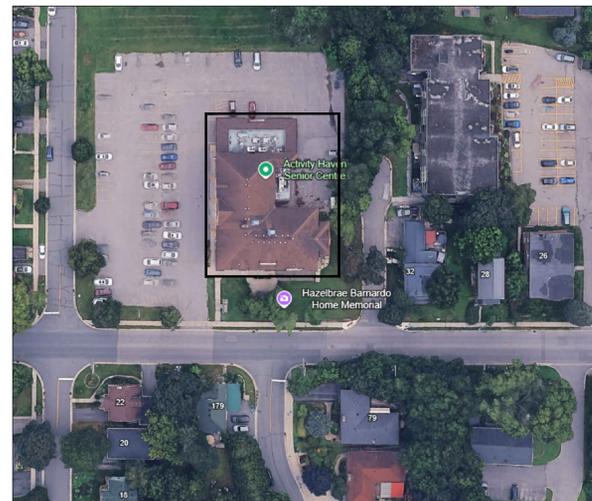
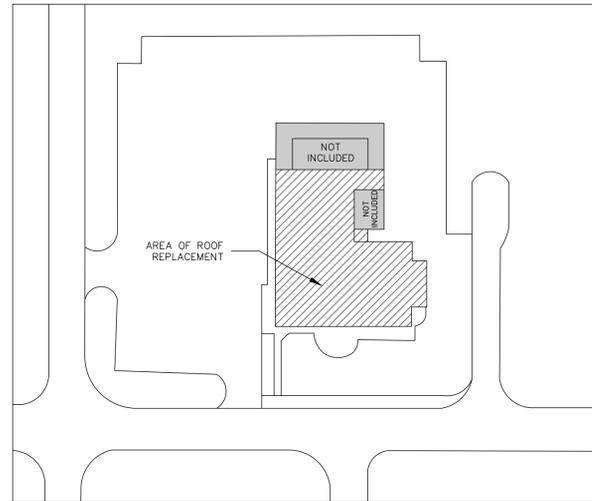
| Project Drawings | | |
|------------------|---|---|
| | A1 – Roof Plan (24" x 36") | 1 |
| | A2 – Details (24" x 36") | 1 |
| | A3 – Details (24" x 36") | 1 |
| | A4 – Details (24" x 36") | 1 |
| | A5 – Details (24" x 36") | 1 |
| | S1 – Existing Roof Framing Plan (24" x 36") | 1 |
| | S2 – Sections (24" x 36") | 1 |
| | S3 – General Notes (24" x 36") | 1 |

DRAWING INDEX:

- A1 - ROOF PLAN
- A2 - DETAILS
- A3 - DETAILS
- A4 - DETAILS
- A5 - DETAILS

| ROOF AREA STATISTICS | | | |
|-------------------------|-------------------------|------------------------|--------------------|
| ROOF SECTIONS | AREA (ft ²) | AREA (m ²) | NEW ROOFING SYSTEM |
| F, G, H, I, J, K, L & M | 11,700 | 1,087.0 | NR1 |
| TOTAL | 11,700 | 1,087.0 | |

| ITEM | LENGTH (ft) | LENGTH (m) |
|---------------------------|-------------|------------|
| NEW SNOW RETENTION SYSTEM | 880 | 268.2 |
| EXISTING EAVESTROUGHS | 450 | 137.2 |
| EXISTING DOWNSPOUTS | 170 | 51.8 |



PROJECT NORTH TRUE NORTH

LEGEND:

- ROOF AREA TO BE REPLACED
- NOT INCLUDED IN SCOPE OF WORK
- ROOF SECTION
- PLUMBING VENT STACK
- EXISTING EAVESTROUGH & DOWNSPOUT
- DUCT CURB
- CHIMNEY
- ROOF SLOPE
- ROOF RIDGE
- ROOF HP
- ROOF VALLEY
- GRAVITY AIR RIDGE VENT
- EXISTING SNOW GUARD
- NEW SNOW GUARD

EXISTING ROOF STATISTICS

1. ROOF SECTIONS: F, G, H, I, J, K, L & M.

- LAYERS OF ASPHALT SHINGLES
- UNDERLAYMENT MEMBRANE
- ICE AND WATER PROTECTION MEMBRANE
- WOOD DECK

| NO. | REVISION | DATE |
|-----|---------------------------------|------------|
| 1 | ISSUED FOR TENDER | 2024/02/16 |
| 2 | ISSUED FOR TENDER REVIEW | 2024/02/19 |
| 3 | ISSUED FOR TENDER REVIEW | 2024/02/27 |
| 4 | ISSUED FOR CONTRACTOR QUOTATION | 2024/08/21 |

ONLY USE LATEST APPROVED DRAWINGS FOR CONSTRUCTION

ALL DIMENSIONS, MEASUREMENTS & AREAS INDICATED ON ALL DRAWINGS ARE APPROXIMATE AND PROVIDED AS INFORMATION ONLY. THEY SHALL NOT BE USED FOR BIDDING, TENDERING AND/OR CONSTRUCTION. CONTRACTORS AND THEIR SUB-TRADES ARE RESPONSIBLE TO VERIFY AND OBTAIN ALL MEASUREMENTS ON SITE PRIOR TO BIDDING, PREPARATION OF SHOP DRAWINGS, APPROVAL OF ANY MATERIAL AND/OR SYSTEM. THE CONSULTANT WILL NOT BE RESPONSIBLE FOR ANY VARIANCES IN DIMENSIONS, MEASUREMENTS & AREAS. CONTRACTOR MUST IMMEDIATELY NOTIFY THE CONSULTANT OF ANY FOUND VARIANCES.

CONSULTANT'S REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM THE WORK ACCURATELY AND IN COMPLIANCE WITH ALL CONTRACT DOCUMENTS. CONTRACTOR SHALL MAINTAIN A SET OF APPROVED DRAWINGS ON SITE AT ALL TIMES.

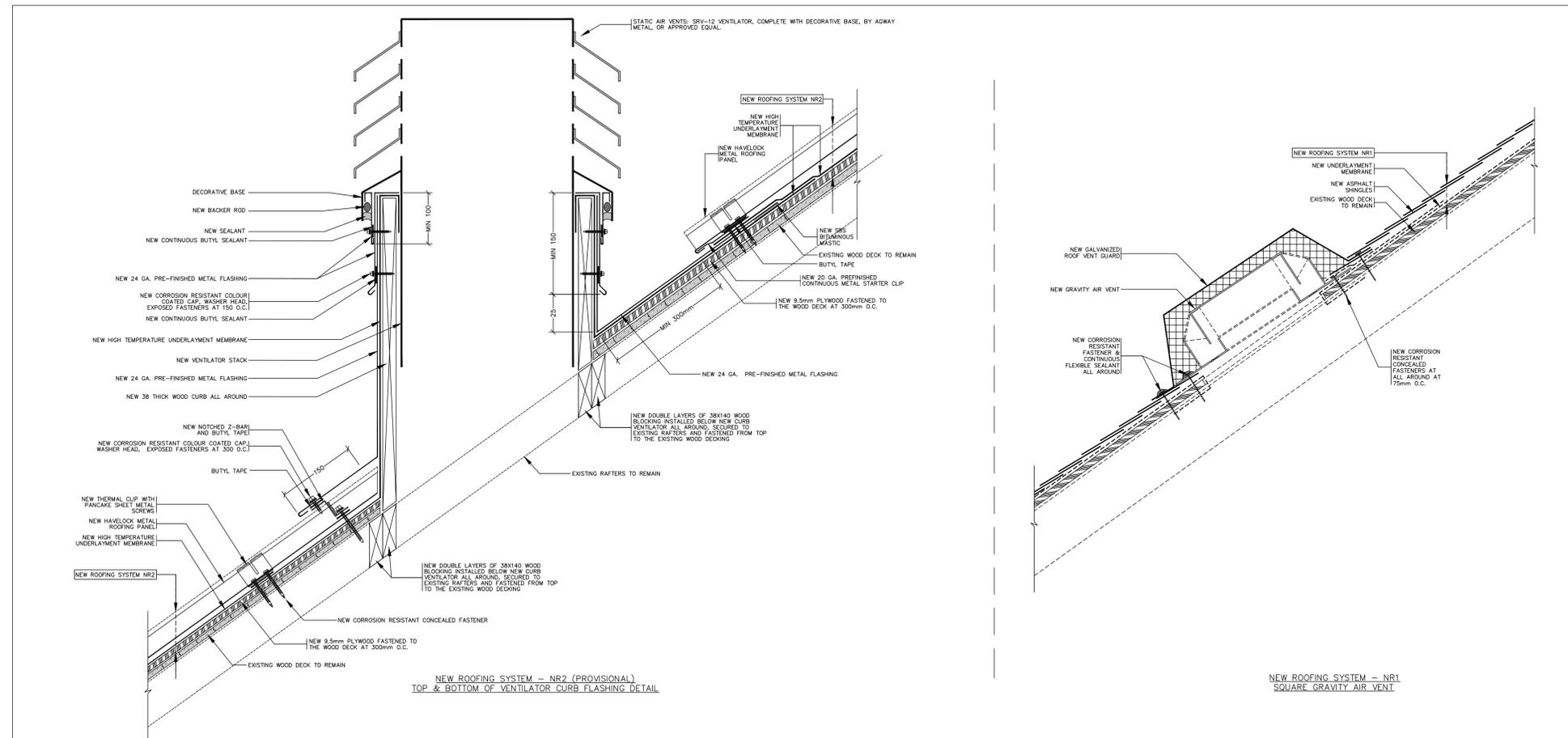
ABS
500 HOOD ROAD, SUITE 320
MARKHAM, ONTARIO L3R 9E3
TEL: 905-474-9569 | www.absi.ca

CITY OF PETERBOROUGH
900 GEORGE STREET NORTH
PETERBOROUGH, ON K9H 3R9

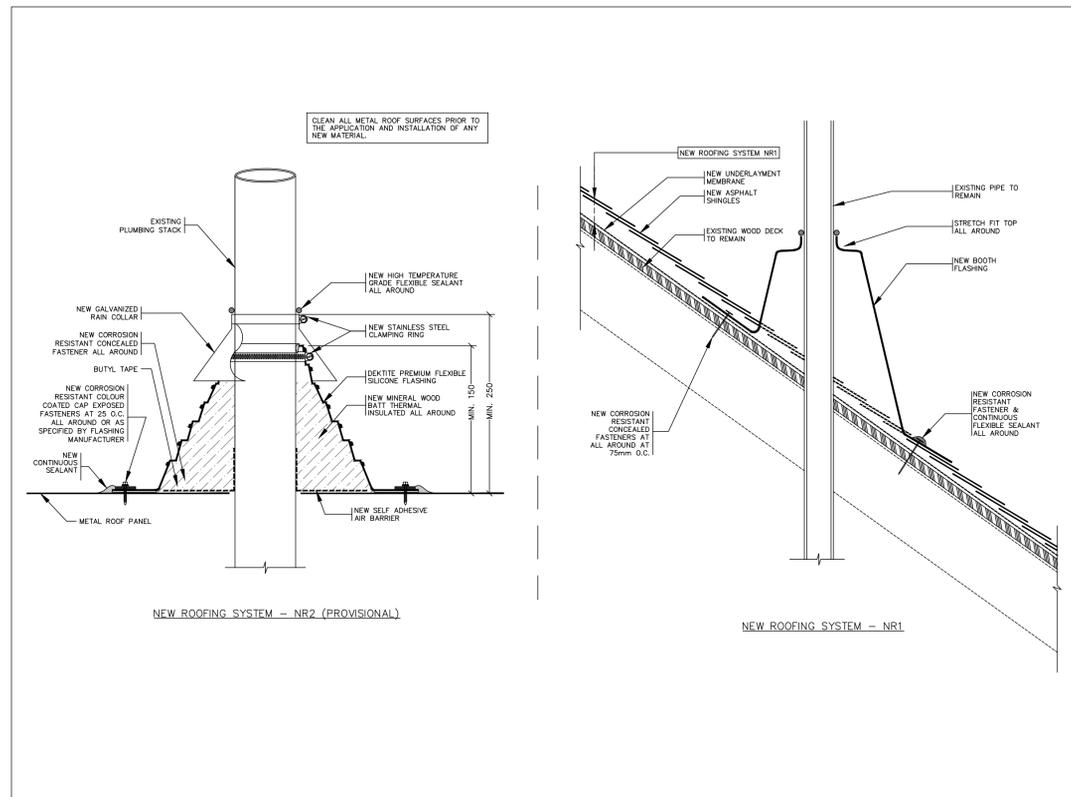
BUILDING:
QUEEN ALEXANDRA COMMUNITY CENTRE
180 BARNARDO AVE., PETERBOROUGH ON

DRAWN: G.M.
APPROVED: B. T. MARASHI, P. ENG., BSS
SCALE: AS NOTED
DATE: FEBRUARY 2026
PROJECT: ROOF REPLACEMENT
DRAWING: ROOF PLAN

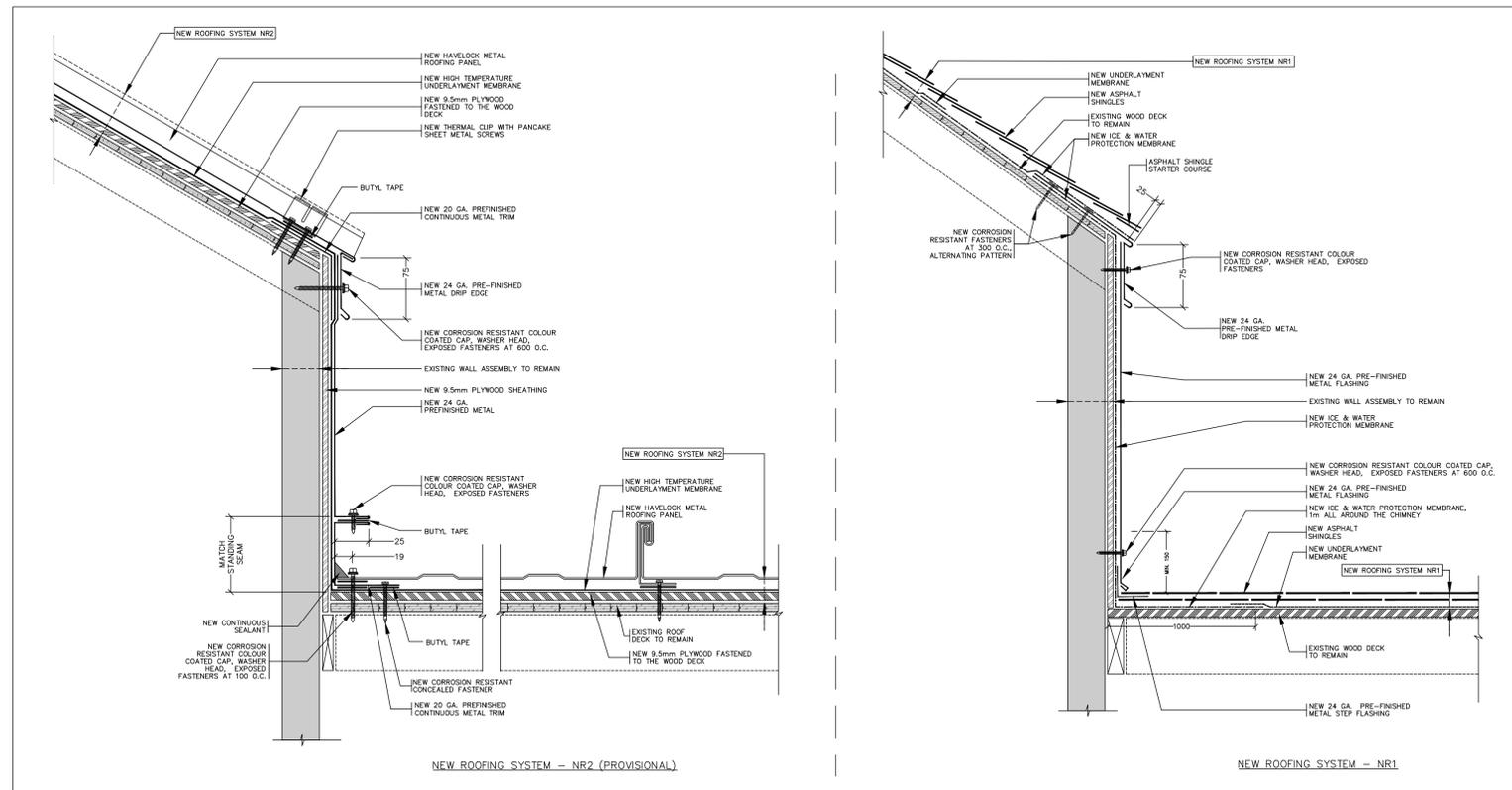
ROOF PLAN 1
SCALE: N.T.S. A1



ROOF GRAVITY VENTS FLASHING DETAIL 3
SCALE: N.T.S. A3



PLUMBING STACK FLASHING DETAIL 2
SCALE: N.T.S. A3



STEP FLASHING DETAIL AT METAL CLAD WALL 1
SCALE: N.T.S. A3

| NO. | REVISION | DATE |
|-----|---------------------------------|------------|
| 1 | ISSUED FOR TENDER | 2024/02/18 |
| 2 | ISSUED FOR TENDER REVIEW | 2024/02/19 |
| 3 | ISSUED FOR TENDER REVIEW | 2024/02/27 |
| 4 | ISSUED FOR CONTRACTOR QUOTATION | 2024/04/21 |

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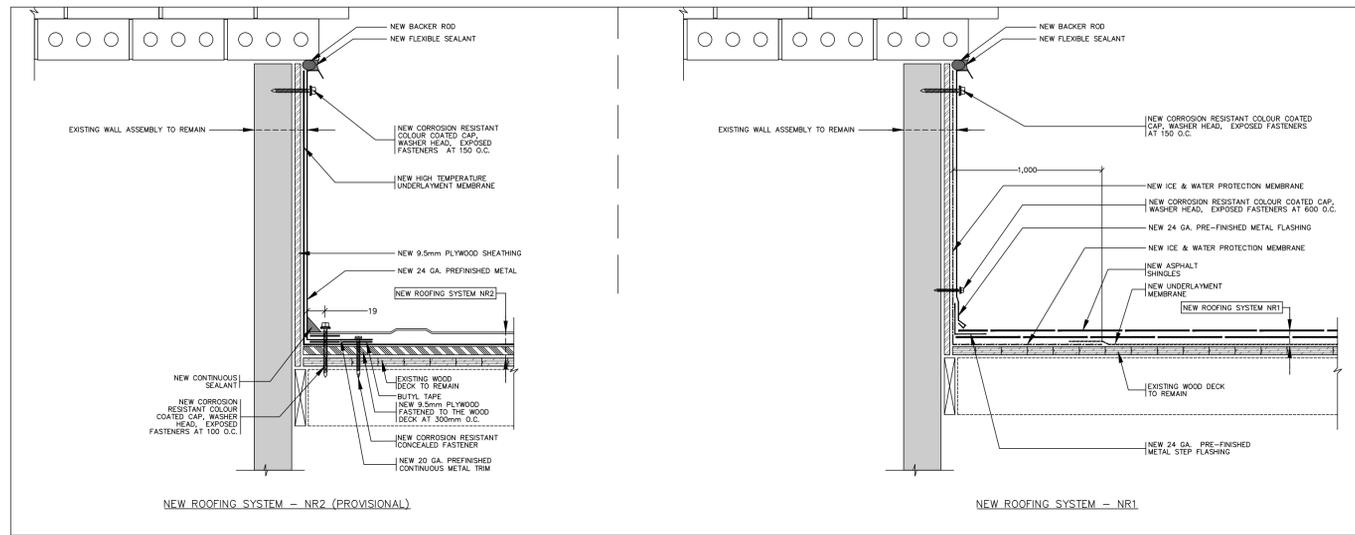
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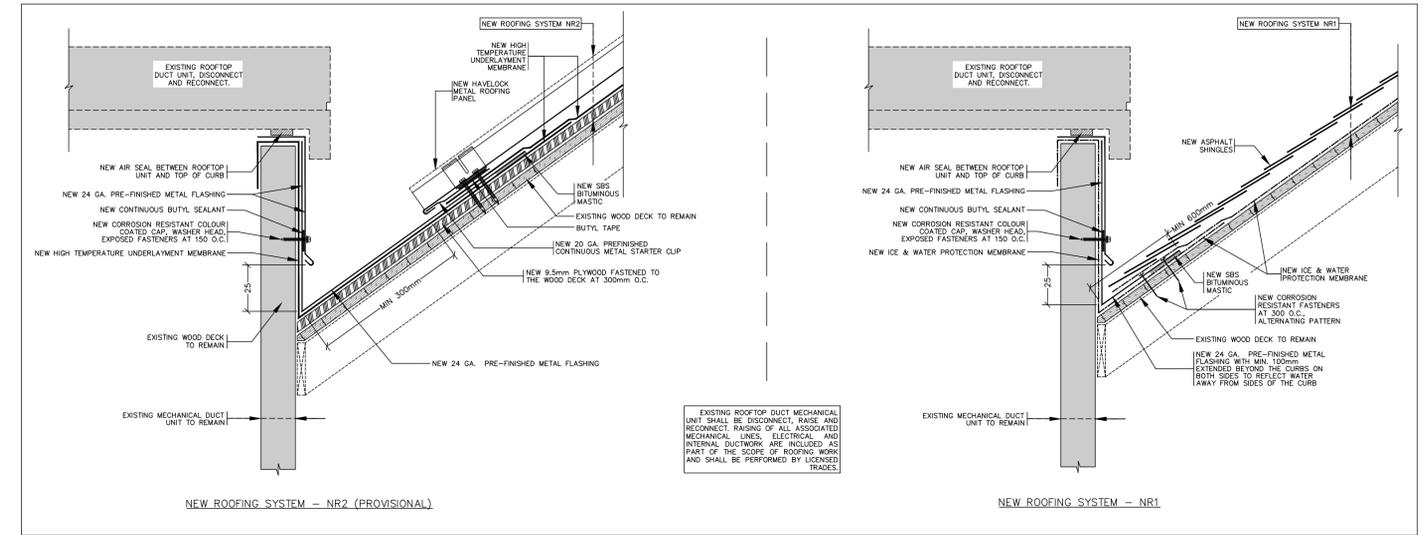
CITY OF PETERBOROUGH
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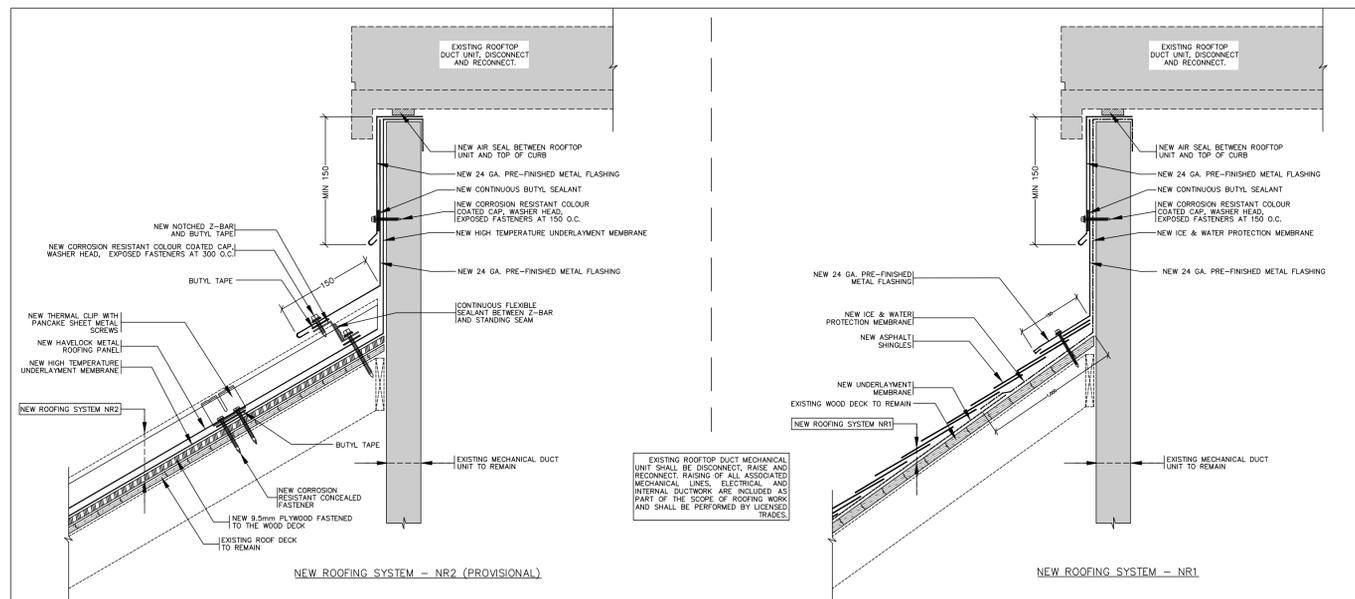
DRAWN: G.M.
APPROVED: B. T. MARASHI, P. ENG., BSS
SCALE: AS NOTED
DATE: FEBRUARY 2026
PROJECT: ROOF REPLACEMENT
DRAWING: DETAILS



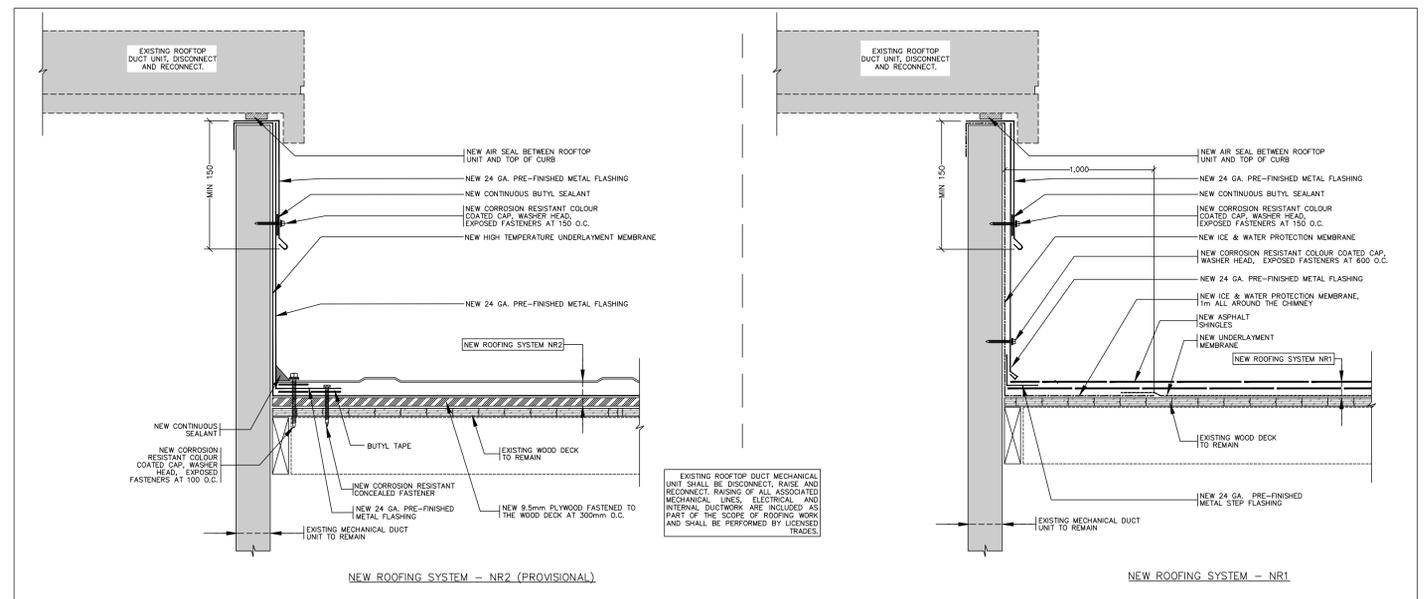
SIDE DORMER FLASHING DETAIL 6
SCALE: N.T.S. A4



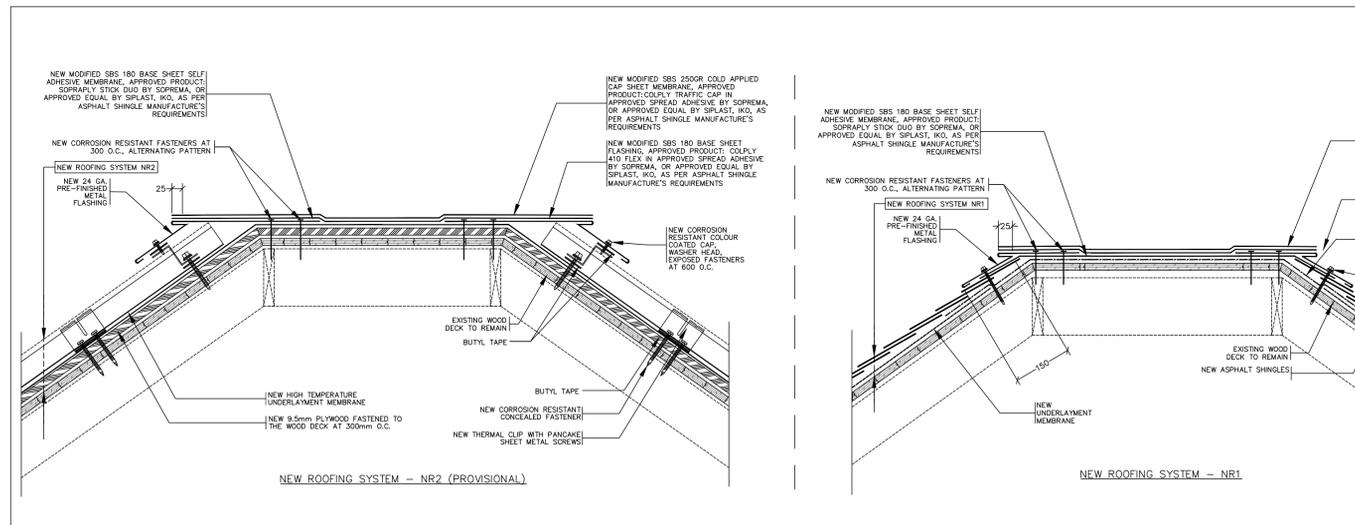
TOP OF CURB FLASHING DETAIL 5
SCALE: N.T.S. A4



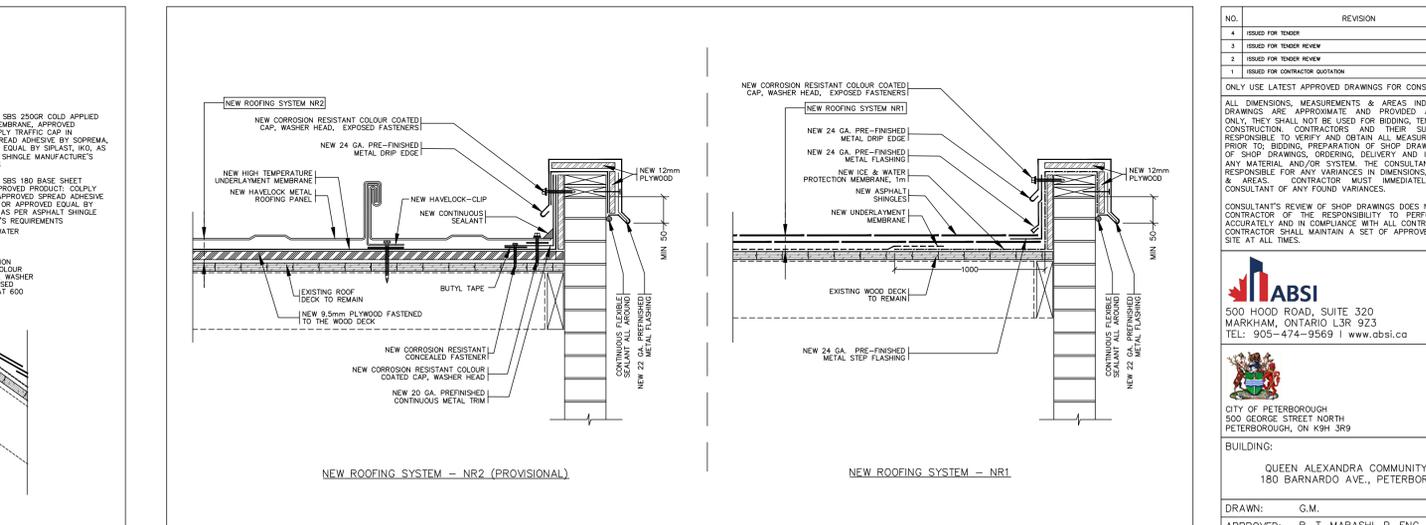
BOTTOM OF CURB FLASHING DETAIL 4
SCALE: N.T.S. A4



SIDE OF CURB FLASHING DETAIL 3
SCALE: N.T.S. A4



FLAT RIDGE FLASHING DETAIL 2
SCALE: N.T.S. A4



NEW FLASHING DETAIL 1
SCALE: N.T.S. A4

| NO. | REVISION | DATE |
|-----|---------------------------------|------------|
| 1 | ISSUED FOR TENDER | 2019/02/18 |
| 2 | ISSUED FOR TENDER REVIEW | 2019/02/19 |
| 3 | ISSUED FOR TENDER REVIEW | 2019/02/27 |
| 4 | ISSUED FOR TENDER REVIEW | 2019/02/27 |
| 5 | ISSUED FOR CONTRACTOR QUOTATION | 2019/08/21 |

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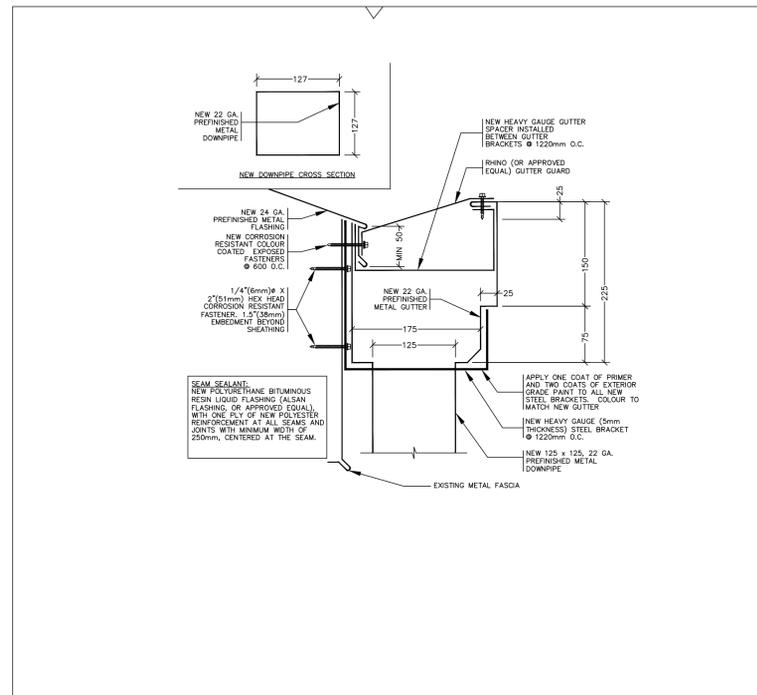
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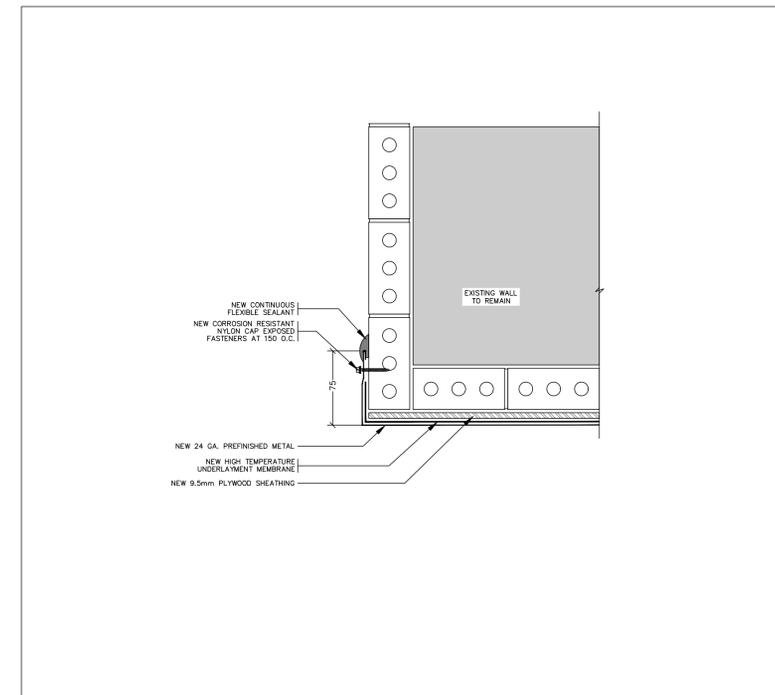
CITY OF PETERBOROUGH
500 GEORGE STREET NORTH
PETERBOROUGH, ON K9H 3R9

BUILDING:
QUEEN ALEXANDRA COMMUNITY CENTRE
180 BARNARDO AVE., PETERBOROUGH ON

DRAWN: G.M.
APPROVED: B. T. MARASHI, P. ENG., BSS
SCALE: AS NOTED
DATE: FEBRUARY 2026
PROJECT: ROOF REPLACEMENT
DRAWING: DETAILS



NEW METAL GUTTER AND DOWNPIPE DETAIL (PROVISIONAL) 2
SCALE: N.T.S. A5



NEW METAL FLASHING TERMINATION DETAIL 1
SCALE: N.T.S. A5

| NO. | REVISION | DATE |
|-----|---------------------------------|------------|
| 4 | ISSUED FOR TENDER | 2026/02/18 |
| 3 | ISSUED FOR TENDER REVIEW | 2026/02/10 |
| 2 | ISSUED FOR TENDER REVIEW | 2026/01/27 |
| 1 | ISSUED FOR CONTRACTOR QUOTATION | 2025/08/21 |

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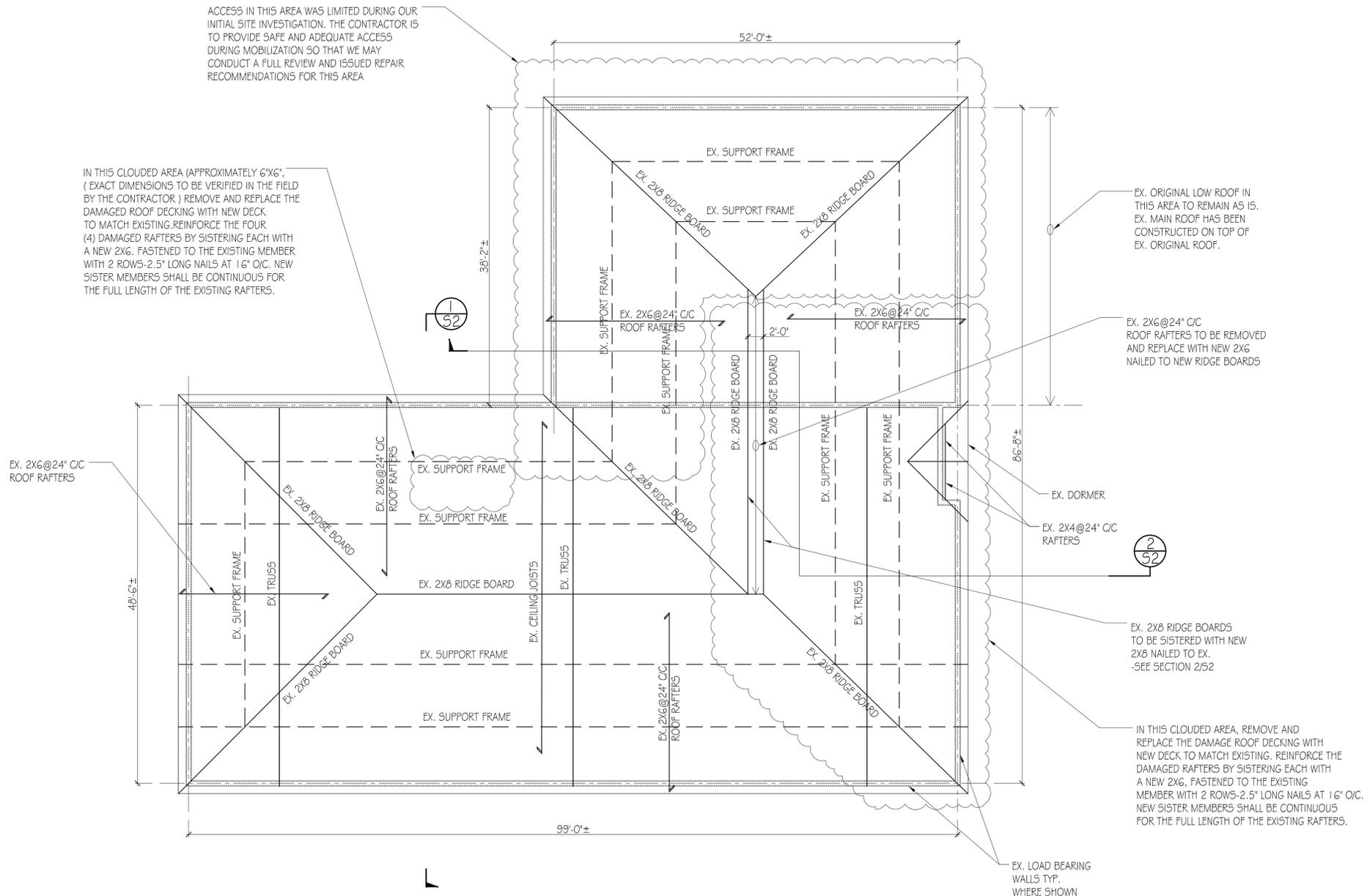

CITY OF PETERBOROUGH
500 GEORGE STREET NORTH
PETERBOROUGH, ON K9H 3R9

BUILDING:
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180 BARNARDO AVE., PETERBOROUGH ON

DRAWN: G.M.
APPROVED: B. T. MARASHI, P. ENG., BSS
SCALE: AS NOTED
DATE: FEBRUARY 2026
PROJECT: ROOF REPLACEMENT
DRAWING: DETAILS

ACCESS IN THIS AREA WAS LIMITED DURING OUR INITIAL SITE INVESTIGATION. THE CONTRACTOR IS TO PROVIDE SAFE AND ADEQUATE ACCESS DURING MOBILIZATION SO THAT WE MAY CONDUCT A FULL REVIEW AND ISSUED REPAIR RECOMMENDATIONS FOR THIS AREA

IN THIS CLOUDED AREA (APPROXIMATELY 6'x6'), (EXACT DIMENSIONS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR) REMOVE AND REPLACE THE DAMAGED ROOF DECKING WITH NEW DECK TO MATCH EXISTING. REINFORCE THE FOUR (4) DAMAGED RAFTERS BY SISTERING EACH WITH A NEW 2X6, FASTENED TO THE EXISTING MEMBER WITH 2 ROWS-2.5" LONG NAILS AT 16" O/C. NEW SISTER MEMBERS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE EXISTING RAFTERS.



EX. ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"



NOTE: A

OUR SCOPE IS STRICTLY LIMITED TO PROVIDED REPAIR DETAILS FOR THE STRUCTURAL MEMBERS THAT HAVE BEEN DAMAGED, WITH THE INTEND OF RESTORING THE ROOF TO ITS ORIGINAL DESIGN CONDITION. A COMPLETE ROOF DESIGN REVIEW IS NOT BEING CARRIED OUT AS PART OF THIS PROJECT. WE ARE ASSUMING THAT THE EXISTING ROOF SYSTEM IS ADEQUATE FOR THE ORIGINAL DESIGN LOADS AND A VERIFICATION OF COMPLIANCE WITH CURRENT BUILDING CODE REQUIREMENTS IS NOT INCLUDED IN OUR SCOPE OR INTENT OF THIS PROJECT.

NOTE: B

ALL DIMENSIONS SHOWN ARE APPROXIMATE ARE TO BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO CONSTRUCTION.

NOTE: C

ONCE THE CONTRACTOR HAS MOBILIZED AND CAN PROVIDE SAFE ACCESS TO THE ROOF STRUCTURE, OUR OFFICE SHALL BE CONTACTED SO THAT WE MAY CONDUCT A FURTHER REVIEW IF ADDITIONAL AREAS OF CONCERN ARE IDENTIFIED.

| | | | |
|-----|------------------------------|-----------|-----|
| △ | REVISED FOR INCL. QUANTITIES | FEB 18/26 | D.K |
| △ | ISSUED FOR PERMIT AND TENDER | DEC 12/25 | D.K |
| No. | REVISION | DATE | BY |

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CLIENT: CITY OF PETERBOROUGH
500 George St. N. Peterborough, ON.

PROJECT:
QUEEN ALEXANDRA COMMUNITY CENTRE ROOF REPAIR

180 BARNARDO AVE., PETERBOROUGH, ONTARIO K9H 5V3

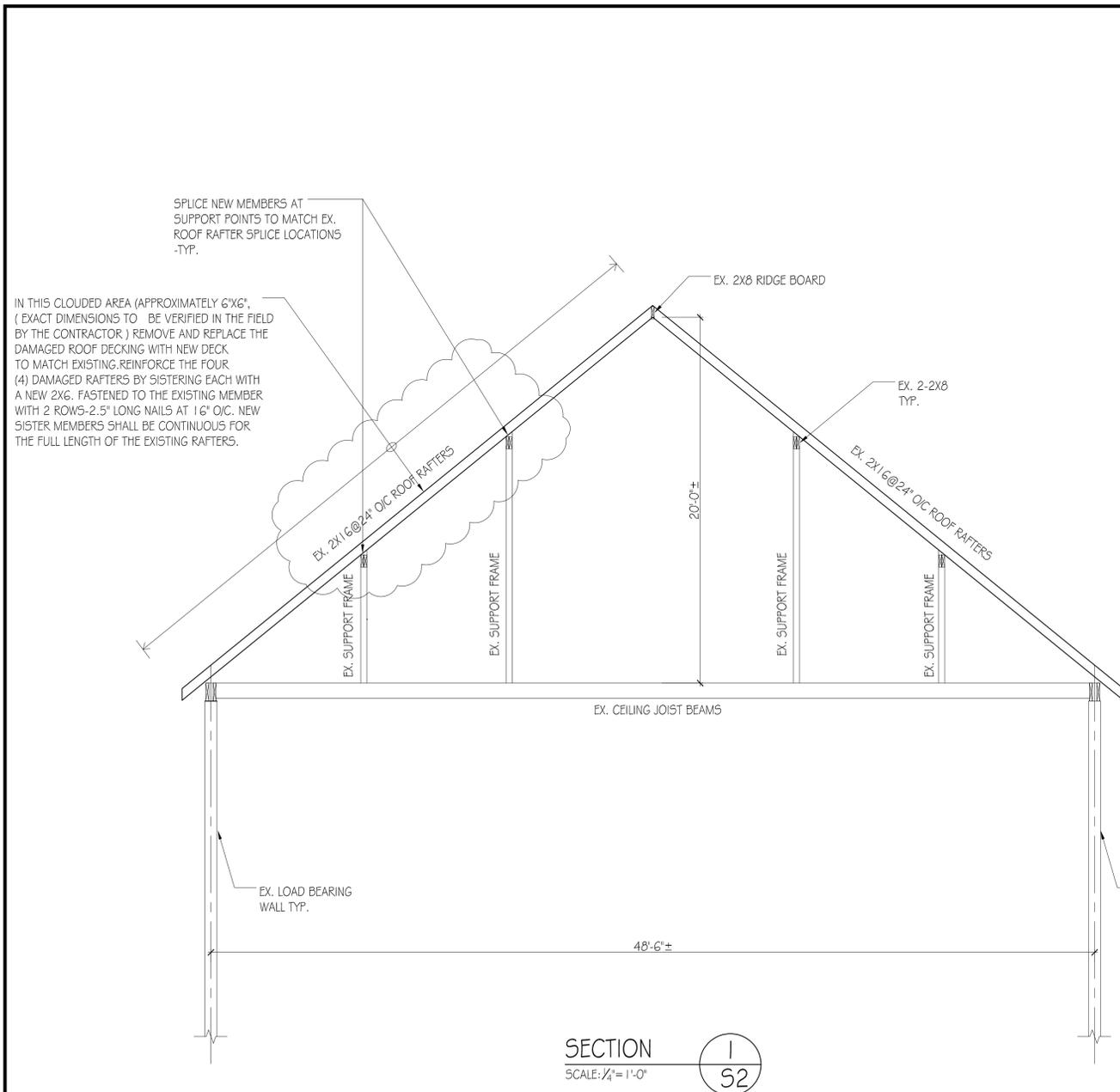
DRAWING:
EXISTING ROOF FRAMING PLAN



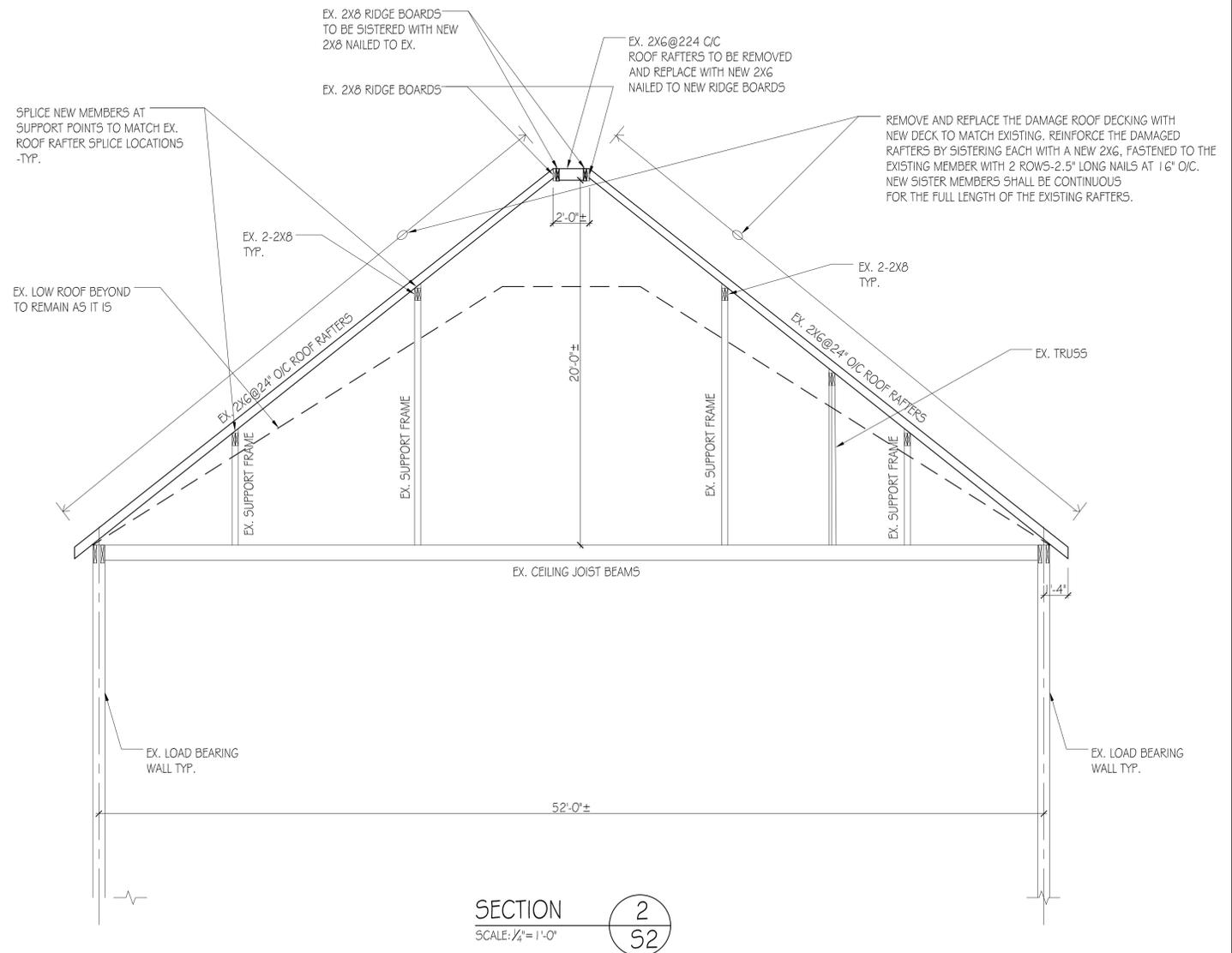
AMR ENGINEERING LTD.
STRUCTURAL ENGINEERS
920 ALNESS STREET, SUITE 205
TORONTO, ON M3J 2H7
(416) 551-1611



| | | | |
|-------------|-----------|-----------------|---------|
| DRAWN BY: | M.K. | AMR PROJECT No. | |
| CHECKED BY: | D.K. | | 25-2334 |
| DATE: | FEB 18/26 | DWG. No. | |
| SCALE: | AS NOTED | | S1 OF 3 |



SECTION 1
SCALE: 1/4" = 1'-0"



SECTION 2
SCALE: 1/4" = 1'-0"

NOTE: B
ALL DIMENSIONS SHOWN ARE APPROXIMATE ARE TO BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO CONSTRUCTION.

| ▲ | REVISED FOR INCL. QUANTITIES | FEB 18/26 | D.K |
|-----|------------------------------|-----------|-----|
| ▲ | ISSUED FOR PERMIT AND TENDER | DEC 12/25 | D.K |
| No. | REVISION | DATE | BY |

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CLIENT: CITY OF PETERBOROUGH
500 George St. N. Peterborough, ON.

PROJECT:
QUEEN ALEXANDRA COMMUNITY CENTRE ROOF REPAIR

180 BARNARDO AVE., PETERBOROUGH, ONTARIO K9H 5V3

DRAWING:
SECTIONS



AMR ENGINEERING LTD.
STRUCTURAL ENGINEERS
920 ALNESS STREET, SUITE 205
TORONTO, ON M3J 2H7
(416) 551-1611



| | | | |
|-------------|-----------|-----------------|---------|
| DRAWN BY: | M.K. | AMR PROJECT No. | 25-2334 |
| CHECKED BY: | D.K. | DWG. No. | S2 |
| DATE: | FEB 18/26 | OF 3 | |
| SCALE: | AS NOTED | | |

GENERAL NOTES

- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN.
- THE INFORMATION ON THESE DRAWINGS SHALL NOT BE USED FOR ANY OTHER PROJECT OR WORKS. THE INFORMATION ON THESE DRAWINGS APPLIES SOLELY TO THIS PROJECT.
- THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.
- "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF AMR ENGINEERING LIMITED. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.
- SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO AMR ENGINEERING LIMITED. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.

RENOVATIONS

- THE CONTRACT DOCUMENTS ARE BASED ON ASSUMED AS-BUILT DIMENSIONS FOR THE EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH DETAILING AND PLAGING PRACTICE. THESE ASSUMPTIONS MAY VARY FROM THE ACTUAL ON-SITE CONDITIONS. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CONSULTANT OF ANY ACTUAL VARIATIONS FROM THE ASSUMED CONDITIONS.
- MINOR MODIFICATIONS TO SUIT TOLERANCES OF +/- 50mm WILL BE REQUIRED TO THE WORK INDICATED ON THESE DRAWINGS TO REFLECT ACTUAL SITE CONDITIONS. THE CONTRACTOR WILL COOPERATE WITH THE CONSULTANT AND AMR IN THIS REGARD. MINOR MODIFICATIONS WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT RESULT IN A CHANGE IN THE CONTRACT PRICE.
- ENSURE THAT ALL NECESSARY JOB DIMENSIONS ARE TAKEN AND ALL TRADES ARE COORDINATED FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF SUCH DIMENSIONS, AND FOR COORDINATION.
- PRIOR TO FABRICATION OF ANY STRUCTURAL MEMBERS, THE CONTRACTOR SHALL COMPLETE THIS SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING. REPORT ANY DISCREPANCIES TO AMR PRIOR TO STARTING WORK.
- COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND MEANS DIMENSIONS AND ELEVATIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.
- ANY OPENINGS THAT ARE NOT SHOWN OR INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO AMR FOR REVIEW. THESE OPENINGS MAY NOT BE ALLOWED, MAY HAVE TO BE MOVED, OR MAY REQUIRE ADDITIONAL STRUCTURAL WORK AND DETAILING. DO NOT PROCEED WITH THESE OPENINGS WITHOUT WRITTEN PERMISSION FROM AMR.

TEMPORARY SHORING NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF TEMPORARY SHORING. SUBMIT DRAWING BEARING STAMP OF P. ENG RESPONSIBLE FOR DESIGN WHEN SO DIRECTED BY THE LOCAL BUILDING AUTHORITY.
- THE CONTRACTOR SHALL CHECK AND VERIFY EXISTING SITE CONDITIONS AFFECTING WORK PRIOR TO STARTING ANY WORK. ANY INCONSISTENCIES AND/OR VARIATIONS IN EXISTING CONDITIONS AFFECTING THIS WORK SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- THE CONTRACTOR MUST TAKE ALL THE NECESSARY PRECAUTIONS TO CARRY OUT THIS WORK AND BE RESPONSIBLE FOR PROTECTION OF THE EXISTING BUILDING THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING IN TWO PERPENDICULAR DIRECTIONS TO PREVENT ANY MOVEMENT IN SHORING.
- NEW OR SOUND USED MATERIAL MAY BE USED FOR SHORING MEMBERS SUBJECT TO ENGINEERS APPROVAL.
- PROVIDE WEDGES AS REQUIRED TO ENSURE TIGHT FIT.
- PROVIDE SHORING DRAWING STAMPED PROVIDE BY P. ENG. AS REQUIRED BY THE CITY.

WOOD FRAMING

GENERAL

- ALL DESIGN, DETAILS, MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO CURRENT EDITIONS OF THE FOLLOWING AS A MINIMUM:
 - ONTARIO BUILDING CODE 2024 - PART 9
 - CAN/CSA-086 - ENGINEERING DESIGN IN WOOD
 - CSA O121 - DOUGLAS FIR PLYWOOD
 - CAN/CSA-L0 4000 - PARALLAMS AND MICROLLAMS
 - CAN/CSA-O122 - STRUCTURAL GLUED-LAMINATED TIMBER
 - CSA O437 SERIES - STANDARDS FOR OSB AND WAFERBOARD
 - CSA B111 - WIRE NAILS, SPIRES AND STAPLES
 - CAN/CSA-B34 - MISCELLANEOUS BOLTS AND SCREWS
 - CANADIAN WOOD-FRAME HOUSE CONSTRUCTION/CMHC
 - WOOD DESIGN MANUAL - CANADIAN WOOD COUNCIL
- ANY CHANGES TO THE FRAMING SHOWN ON THESE DRAWINGS SHALL HAVE PRIOR WRITTEN APPROVAL OF AMR. FRAMING CHANGES WHICH HAVE NOT BEEN SO APPROVED WILL BE REJECTED.
- CONFIRM ALL DIMENSIONS AND OUTLINES WITH THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS AND DETAILS.
- ANY TIMBER NOT GRADE MARKED WILL BE REJECTED.
- FINISHES SHALL BE DETAILED TO ACCOMMODATE SHRINKAGE OF THE TIMBER OVER TIME.
- DO NOT COVER WOOD FRAMING WITH FINISHES UNTIL AMR'S FRAMING REVIEW IS COMPLETE. PROVIDE 48 HOURS ADVANCE NOTIFICATION WHEN FRAMING REVIEWS ARE REQUIRED.
- NOTCHING AND DRILLING OF STRUCTURAL ELEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH IN THE BUILDING CODE PART 9, UNLESS OTHERWISE APPROVED IN WRITING BY AMR.
- ALL TIMBER ELEMENTS ARE DESIGNED FOR DRY-SERVICE CONDITIONS. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING AND VENTILATION DETAILS.
- ALL LOAD BEARING STUDS SHALL HAVE ONE ROW OF SOLID BLOCKING AT MID-HEIGHT UNLESS NOTED OTHERWISE.
- PROVIDE 2"X2" BRIDGING AT 6'-8" C/C MAXIMUM FOR FLOOR JOISTS.
- BRIDGING FOR TRUSS JOISTS SHALL BE AS RECOMMENDED BY THE MANUFACTURER, HOWEVER, PROVIDE MINIMUM ONE ROW OF BRIDGING AT MID-SPAN FOR JOIST SPANS > 16'-0".
- PROVIDE ADEQUATE TEMPORARY BRACING FOR ALL STUD WALLS DURING CONSTRUCTION.
- ALL CONNECTIONS, UNLESS NOTED OTHERWISE, TO BE IN ACCORDANCE WITH O.B.C 2024, TABLE 9.23.3.4, & TABLE 9.23.3.5
- ALL WOOD FRAME CONSTRUCTION SHALL SATISFY THE FOLLOWING CONSTRUCTION TOLERANCES AS A MINIMUM. REFER TO ARCHITECTURAL AND WARRANTY REQUIREMENTS FOR ADDITIONAL TOLERANCE SPECIFICATIONS.
 - FLOORS** - NOT MORE THAN 6 mm IN 3 m OUT OF LEVEL.
 - WALLS** - NOT MORE THAN 6 mm IN 2.4 m OUT OF PLUMB. NOT MORE THAN 6 mm IN 3 m FOR ANY BOWING.
 - OVERALL** - BUILDING WALLS AND FLOORS SHALL NOT BE MORE THAN 10 mm DIFFERENCE IN MEASUREMENT FROM DIMENSIONS SHOWN ON CONTRACT DOCUMENTS.

MATERIALS

- STUDS AND BUILT-UP AND SOLID POSTS TO BE S-P-F #2 GRADE OR BETTER
- JOISTS TO BE S-P-F #2 GRADE OR BETTER.
- BUILT-UP BEAMS AND HEADERS TO BE S-P-F #2 GRADE OR BETTER.
- WALL PLATES TO BE S-P-F #2 WALL PLATES SHALL BE KILN-DRIED AND MAY BE FINGER JOINTED EXCEPT IN SHEAR WALLS.
- BEAMS TO BE S-P-F #2 GRADE OR BETTER.
- ALL DIMENSION LUMBER TO BE SURFACED FOUR SIDES ('S4S').
- PLYWOOD TO BE DOUGLAS FIR SHEATHING GRADE.
- D.S.B. TO CONFORM TO CSA O325.
- TIMBER CONNECTION HARDWARE TO BE SIMPSON STRONG-TIE, OR EQUIVALENT APPROVED BY AMR. COMPLETE WITH NAILS SUPPLIED BY MANUFACTURER. DO NOT USE P NAILS.
- NAILS SHALL BE COMMON ROUND STEEL WIRE NAILS. NAILS ARE CALLED UP BY LENGTH AND SHALL CONFORM TO THE FOLLOWING TABLE:

| LENGTH | DIAMETER | PENNY-WEIGHT |
|-----------------|------------------|--------------|
| 50 mm (2") | 2.84 mm (0.113") | 6d |
| 65 mm (2 1/2") | 3.25 mm (0.131") | 8d |
| 75 mm (3") | 3.66 mm (0.146") | 10d |
| 80 mm (3 1/4") | 3.66 mm (0.146") | 12d |
| 90 mm (3 1/2") | 4.06 mm (0.162") | 16d |
| 100 mm (4") | 4.88 mm (0.192") | 20d |
| 115 mm (4 1/2") | 5.38 mm (0.225") | 30d |
| 125 mm (5") | 5.89 mm (0.244") | 40d |

NOTE: SPIRAL OR PNEUMATIC NAILS MAY BE USED IF THEY CONFORM TO THE TABLE ABOVE.

- MISCELLANEOUS STEEL TO BE CAN/CSA-G40 21 OR APPROVED EQUAL.
- ANCHOR BOLTS SHALL BE ASTM F1554 OR ASTM A36 OR APPROVED EQUAL. ANCHOR BOLTS SHALL BE DEFORMED, THREADED ALONG THEIR FULL LENGTH OR HOOKED 40 mm AT THE BOTTOM.
- BOLTS SHALL BE ASTM A307 OR APPROVED EQUAL. USED WITH STANDARD CUT STEEL WASHERS UNLESS NOTED OTHERWISE ON DRAWINGS.
- MOISTURE CONTENT OF ALL TIMBER ELEMENTS SHALL NOT EXCEED 19% AT THE TIME OF CONSTRUCTION OR FABRICATION.
- ALL FASTENERS AND CONNECTION HARDWARE THROUGH PRESERVATIVE TREATED MATERIALS OR OUTSIDE OF THE MOISTURE BARRIER TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL AS SPECIFIED.

NAILING

- NAILING SHALL CONFORM TO THE BUILDING CODE PART 9 AND "WOOD BUILDING TECHNOLOGY" PUBLISHED BY THE CANADIAN WOOD COUNCIL. NAILING CALLED UP ON THESE DRAWINGS (I.E. FOR SHEATHING) IS BASED ON COMMON NAILS. SEE NOTE 10 UNDER MATERIALS FOR COMMON NAIL SIZES.
- UNLESS NOTED OTHERWISE NAIL ALL WALL, FLOOR AND ROOF SHEATHING WITH 65 mm NAILS AT 150 mm O/C AT SUPPORTED EDGES OF SHEATHING SHEETS, AND AT 250 mm O/C FOR FLOORS AND AT 300 mm O/C FOR ROOFS AT INTERMEDIATE SUPPORTS TO ALL SUPPORTING MEMBERS. FLOOR SHEATHING SHALL BE NAILED WITH SPIRAL NAILS AND SHALL BE GLUED TO THE JOISTS IN ADDITION TO NAILING. IF SMALLER DIAMETER NAILS (I.E. PNEUMATICALLY DRIVEN NAILS OR P-NAILS) ARE USED, INCREASE THE NUMBER OF NAILS BY 33%. SEE SHEAR WALL SCHEDULE OR DIAPHRAGM NAILING SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- DO NOT USE PNEUMATICALLY DRIVEN NAILS WITH JOIST HANGERS OR CONNECTING HARDWARE. NAILS FOR HARDWARE SHOULD BE AS SPECIFIED OR SUPPLIED BY MANUFACTURER.
- DO NOT USE PNEUMATICALLY DRIVEN NAILS IN SHEAR WALL SHEATHING UNLESS THE NAILS MEET THE LENGTH AND DIAMETER OF NOTE 9 UNDER MATERIALS.

ESTIMATED REPAIR QUANTITIES

| | |
|--------------|--|
| DECKING | ± 1'900 SQUARE FEET (SF) |
| ROOF RAFTERS | TOTAL OF 35 RAFTERS ± 1'1'20 LINEAR FEET (LF) |

THE QUANTITIES PROVIDED ARE ESTIMATES DERIVED FROM LIMITED SITE ACCESS AND NON-DESTRUCTIVE VISUAL INSPECTION. CONCEALED CONDITIONS MAY RESULT IN GREATER OR LESSER REPAIR EXTENTS THAN INDICATED. THE QUANTITIES NOTED SHALL BE USED FOR BASE BID PROPOSES ONLY. CONTRACTORS ARE REQUIRED TO PROVIDE UNIT RATES FOR ADDITIONAL ROOF DECKING REPLACEMENT (SF) AND RAFTER REPLACEMENT (LF AND/ OR PER RAFTER) TO ACCOMMODATE UNFORESEEN CONDITIONS ENCOUNTERED DURING CONSTRUCTIONS. FINAL QUANTITIES WILL BE DETERMINED BASED ON ACTUAL SITE CONDITIONS AND CONFIRM IN THE FIELD.



| | | | |
|--|------------------------------|-------------------------|-----|
| | REVISED FOR INCL. QUANTITIES | FEB 18/26 | D.K |
| | ISSUED FOR PERMIT AND TENDER | DEC 12/25 | D.K |
| No. | REVISION | DATE | BY |
| All drawings, plans, models, designs, specifications and other documents prepared by AMR Engineering Limited ("AMR") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of AMR whether the Work is executed or not, and AMR reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project. Contractor shall verify all dimensions, etc. on site and shall be responsible for reporting any discrepancies to the engineer. | | | |
| CLIENT: CITY OF PETERBOROUGH 500 George St. N. Peterborough, ON. | | | |
| PROJECT: QUEEN ALEXANDRA COMMUNITY CENTRE ROOF REPAIR | | | |
| 180 BARNARDON AVE., PETERBOROUGH, ONTARIO K9H 5V3 | | | |
| DRAWING: GENERAL NOTES | | | |
| | | | |
| DRAWN BY: | M.K. | AMR PROJECT No. 25-2334 | |
| CHECKED BY: | D.K. | | |
| DATE: | FEB 18/26 | DWG. No. | |
| SCALE: | AS NOTED | S3 OF 3 | |