

Ganaraska Forest Center - Auxiliary Building

ISSUED FOR TENDER 2026-07-30
Z0029853



CIVIL SHEET LIST

SHEET #	SET #	SET TOTAL	SHEET NAME
C001			GENERAL NOTES
C002			GRADING
C003			SERVICING

PROCESS SHEET LIST

SHEET #	SET #	SET TOTAL	SHEET NAME
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ARCHITECTURAL SHEET LIST

SHEET #	SET #	SET TOTAL	SHEET NAME
A001	1	20	GENERAL INFORMATION & CONSTRUCTION ASSEMBLIES
A002	2	20	OBC COMPLIANCE AND LIFE SAFETY
A003	3	20	SITE PLAN & LIMITING DISTANCE
A004	4	20	BUILDING 3D VIEWS
A130	5	20	FIRST FLOOR PLAN
A131	6	20	FIRST FLOOR SLAB EDGE PLAN
A135	7	20	ROOF PLAN
A150	8	20	FIRST FLOOR RCP
A200	9	20	ELEVATIONS
A301	10	20	BUILDING SECTIONS
A310	11	20	WALL SECTIONS
A311	12	20	WALL SECTIONS
A401	13	20	WASHROOM ELEVATIONS & DETAILS
A402	14	20	MILLWORK ELEVATIONS AND TYPICAL DETAILS
A501	15	20	PLAN DETAILS
A502	16	20	SECTION DETAILS
A503	17	20	SECTION DETAILS
A504	18	20	SECTION DETAILS
A601	19	20	SCHEDULES, LEGENDS AND DETAILS
A602	20	20	MATERIAL & WINDOW SCHEDULE

STRUCTURAL SHEET LIST

SHEET #	SET #	SET TOTAL	SHEET NAME
S001	1	13	GENERAL NOTES
S002	2	13	TYPICAL DETAILS - WALL
S003	3	13	TYPICAL DETAILS - WALL
S004	4	13	TYPICAL DETAILS - WALL
S005	5	13	TYPICAL DETAILS - ROOF
S006	6	13	TYPICAL DETAILS - ROOF
S101	7	13	FOUNDATION PLAN
S102	8	13	GROUND FLOOR SLAB PLAN
S103	9	13	ROOF FRAMING PLAN
S201	10	13	ELEVATIONS
S202	11	13	ELEVATIONS
S203	12	13	ELEVATIONS
S301	13	13	SECTIONS

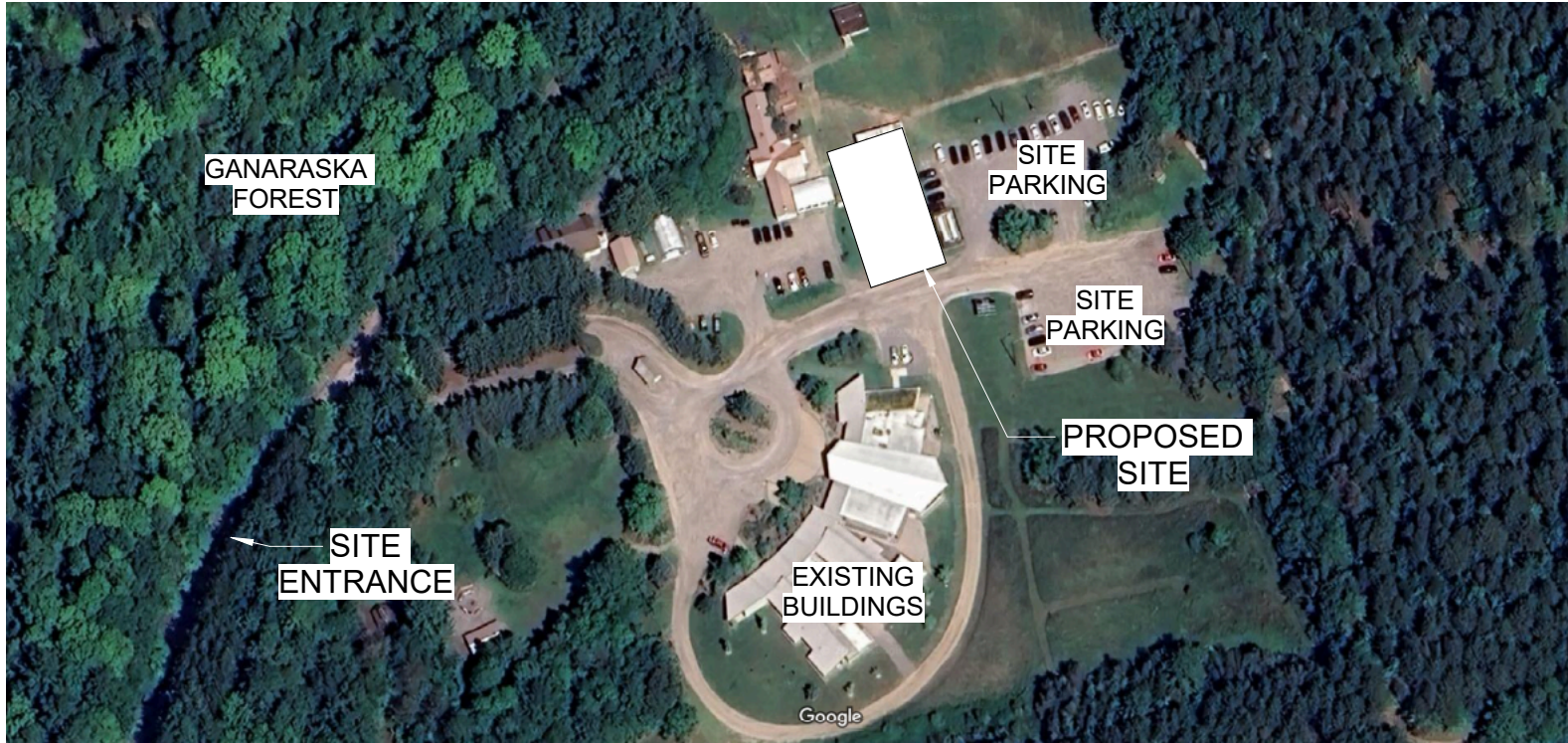
MECHANICAL SHEET LIST

SHEET #	SET #	SET TOTAL	SHEET NAME
M-001	1	10	NOTES, LEGEND & SYMBOLS
M-101	2	10	GROUND FLOOR - PLUMBING - DOMESTIC WATER SUPPLY
M-102	3	10	GROUND FLOOR - PLUMBING - SANITARY DRAINAGE
M-103	4	10	GROUND LEVEL - PLUMBING - VENT
M-104	5	10	GROUND FLOOR - HVAC
M-105	6	10	GROUND FLOOR - PROPANE
M-501	7	10	DETAILS - PLUMBING
M-601	8	10	SCHEDULES - PLUMBING
M-602	9	10	SCHEDULES & CONTROLS - HVAC
M-603	10	10	SCHEDULES - HVAC

ELECTRICAL SHEET LIST

SHEET #	SET #	SET TOTAL	SHEET NAME
E-001	1	6	LEGENDS & NOTES
E-101	2	6	SITE PLAN
E-102	3	6	FLOOR PLAN - GROUND LEVEL
E-103	4	6	REFLECTED CEILING PLAN - GROUND LEVEL
E-601	5	6	PANEL SCHEDULES, SINGLE LINE DIAGRAM & PHOTOS
E-602	6	6	DETAILS

SITE CONTEXT/ KEYPLAN



GENERAL NOTES

- ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, LATEST EDITION AND AODA REGULATIONS WHERE NOTED.
- ENSURE CONSTRUCTION PROCEEDS EFFICIENTLY & IN A TIMELY MANNER.
- CHECK & VERIFY ALL DIMENSIONS, DRAWINGS & SPECIFICATIONS ON SITE. REPORT ANY DISCREPANCIES TO DESIGN TEAM BEFORE PROCEEDING WITH WORK. ALL DIMENSIONS ARE FOR REFERENCE ONLY, SITE VERIFY PRIOR TO CONSTRUCTIONS.
- CONFIRM EXACT LOCATION OF ALL BELLOW-GROUND SERVICES WITH RESPECTIVE UTILITIES & AUTHORITIES HAVING JURISDICTION, PRIOR TO COMMENCING EXCAVATION.
- THE CONTRACTOR SHALL REPAIR ALL FINISHES DISTURBED DURING THE ELECTRICAL UPGRADES AND REWIRING.
- CONSULTANT TO REVIEW PRIOR TO INSTALLATION OF CEILING AND WALLBOARD.

CONSTRUCTION ASSEMBLY NOTES

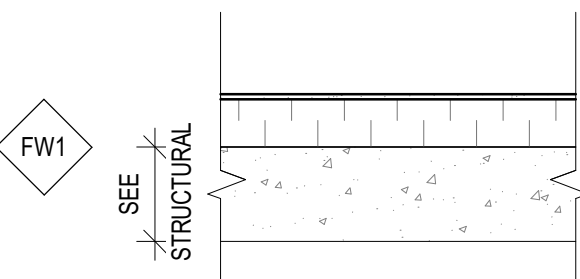
1. ASSEMBLY CONSTRUCTIONS ARE PROVIDED FOR DESCRIPTIVE PURPOSES ONLY. ALL FIRE RESISTANT ASSEMBLIES MUST COMPLY FULLY WITH REQUIREMENTS LISTED UNDER SPECIFIC ULC DESIGN No. IN THE UNDERWRITERS' LABORATORIES OF CANADA LIST OF EQUIPMENT AND MATERIALS, FIRE RESISTANCE, 2004 EDITION (ULC) OR THE SPECIFIC DESIGN IN THE SUPPLEMENTARY GUIDELINES TO THE ONTARIO BUILDING CODE (LATEST EDITION).
2. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF ALL FIRE SEPARATIONS WITH THE CONTRACT DOCUMENTS. ENSURE THAT ALL RATINGS ARE CONTINUOUS AND MAINTAINED FOR THE ENTIRE SEPARATION AND AT ALL PENETRATIONS.
3. SEE DRAWINGS FOR SPECIFIC PARTITION DETAILS
4. IF CONTRACTOR CHOOSES A DIFFERENT PRODUCT THAN INDICATED ON THE ULC LISTING ON THIS SCHEDULE IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT AN ALTERNATIVE APPROPRIATE ULC LISTING FOR REVIEW AND APPROVAL AND TO COMPLY WITH ALL REQUIREMENTS OF THAT LISTING.
5. IF THE ULC LISTINGS CITED SHOW THE MINIMUM REQUIREMENTS TO ACHIEVE THE FIRE LISTING SHOWN. ADDITIONAL REQUIREMENTS SHOWN ON THE ASSEMBLIES SCHEDULE WHICH ARE OVER AND BEYOND WHAT IS LISTED ON THE ULC LISTING ARE ALSO TO BE PROVIDED. EXAMPLES MAY INCLUDE INCREASED STUD SIZE, ADDITIONAL LAYERS OF GWB, AND/OR INSULATION.
6. DEFLECTION TRACKS -PROVIDE DEFLECTION TRACKS WHERE STRUCTURAL INDICATES DEFLECTION AND DEFLECTION TRACKS (FIRE RATED) WHERE STRUCTURAL INDICATES DEFLECTION AT FIRE RATED PARTITIONS.
7. COORDINATE AND PROVIDE OPENINGS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL PENETRATIONS. ENSURE THE INTEGRITY OF FRAMED PARTITIONS.

SYMBOLS

GRID	0	ROOM TAG	Room name 101	BUILDING SECTION REFERENCE	1 A101
FLOOR LEVEL DATUM	GROUND FLOOR TO SLAB 000.000	REVISION TAG	1	WALL SECTION REFERENCE	1 A101
DOOR TAG	D-A101-A	INTERIOR ELEVATION	1 Ref A101 1 Ref	DETAIL NUMBER	1 View Name SCALE: View Scale
WALL TAG	1t	EXTERIOR ELEVATION	Ref 1 A101 1 Ref	DRAWING SHEET NUMBER	1 A101
CURTAIN WALL TAG	1t				
WINDOW TAG	1t				
FLOOR TAG	1t				
ROOF & SOFFIT TAG	1t				
CEILING TAG	0 GWB				
MATERIAL TAG	1t				
MILLWORK TAG	1t				
FURNITURE TAG	1t				

CONSTRUCTION ASSEMBLIES LEGEND

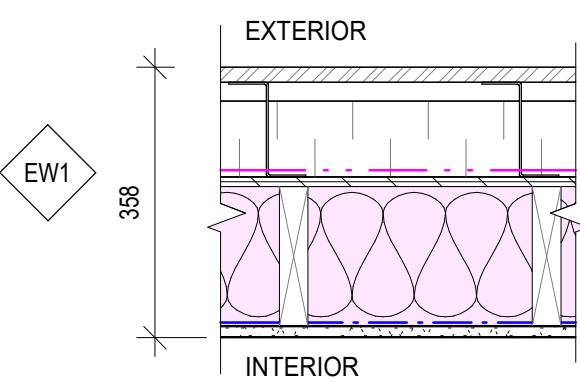
FOUNDATION ASSEMBLIES



FW1: FOUNDATION WALL (CIP)

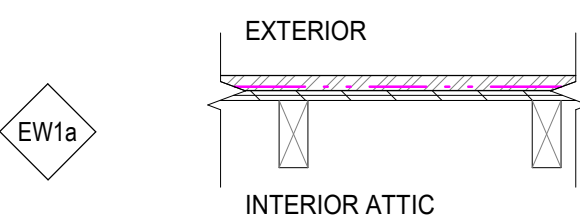
- 70mm CONCRETE FACED INSULATION (300mm DEEP)
- CAST IN PLACE CONCRETE (REFER TO STRUCTURAL)

EXTERIOR WALL ASSEMBLIES



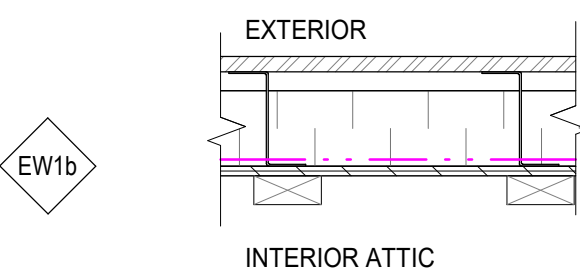
EW1: METAL SIDING

- HORIZONTAL METAL SIDING
- 25mm AIR SPACE
- 125mm VERTICAL Z-GIRTS @ 300mm o/c (VERTICALLY LINED UP WITH WOOD STUDS) W/ 100mm RIGID INSULATION
- AIR BARRIER
- 13mm PLYWOOD SHEATHING (REFER TO STRUCTURAL)
- 184mm WOOD STUD 300mm o/c MAX. (REFER TO STRUCTURAL) /W BATT INSULATION TO FILL CAVITY
- VAPOUR BARRIER
- 16mm GYPSUM BOARD



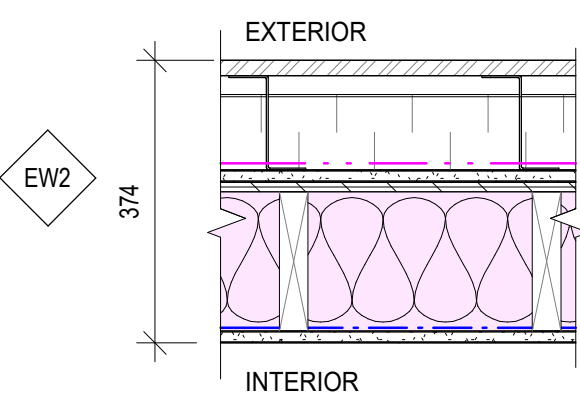
EW1a: METAL SIDING

- HORIZONTAL METAL SIDING
- AIR BARRIER
- 13mm PLYWOOD SHEATHING (REFER TO STRUCTURAL)
- PREFABRICATED WOOD TRUSS VERTICAL CHORD (REFER TO STRUCTURAL)



EW1b: METAL SIDING

- HORIZONTAL METAL SIDING
- 25mm AIR SPACE
- 125mm VERTICAL Z-GIRTS @ 300mm o/c (PROVIDE VERTICAL BLOCKING IN TRUSS SPACE) W/ 100mm RIGID INSULATION
- AIR BARRIER
- 13mm PLYWOOD SHEATHING (REFER TO STRUCTURAL)
- PREFABRICATED WOOD TRUSS (REFER TO STRUCTURAL)

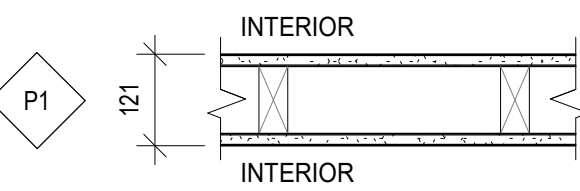


EW2: METAL SIDING (1 HR)

[Refer to OBC SB-2 Table] Table 2.3.4.A - Table 2.3.4.E

- HORIZONTAL METAL SIDING
- 25mm AIR SPACE
- 125mm VERTICAL Z-GIRTS @ 300mm o/c (VERTICALLY LINED UP WITH WOOD STUDS) W/ 100mm RIGID INSULATION
- AIR BARRIER
- 16mm FIBERGLASS FACED GYPSUM SHEATHING
- 13mm PLYWOOD SHEATHING (REFER TO STRUCTURAL)
- 184mm WOOD STUD 300mm o/c MAX. (REFER TO STRUCTURAL) /W BATT INSULATION TO FILL CAVITY
- VAPOUR BARRIER
- 16mm TYPE 'X' GYPSUM BOARD

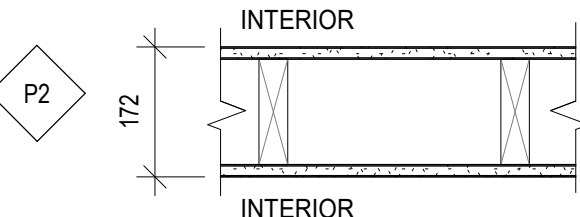
INTERIOR WALL ASSEMBLIES



P1: PARTITION WALL

- 16mm GYPSUM BOARD
- 38x89mm WOOD STUD, 300mm o/c MAX.
- 16mm GYPSUM BOARD

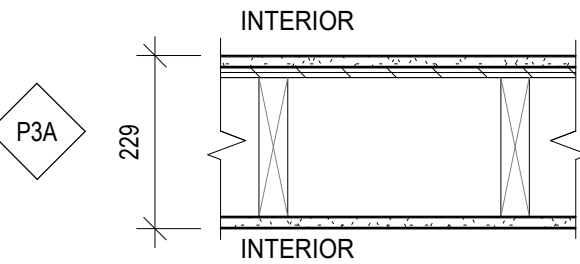
P1 NOTE: BATT INSULATION TO FILL CAVITY FOR SOUND ATTENUATION WHERE SHOWN ON PLAN



P2: PARTITION WALL

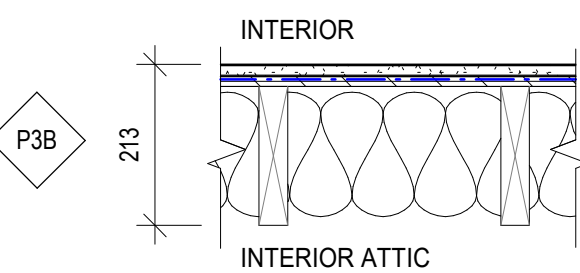
- 16mm GYPSUM BOARD
- 38x140mm WOOD STUD, 300mm o/c MAX.
- 16mm GYPSUM BOARD

P2 NOTE: BATT INSULATION TO FILL CAVITY FOR SOUND ATTENUATION WHERE SHOWN ON PLAN



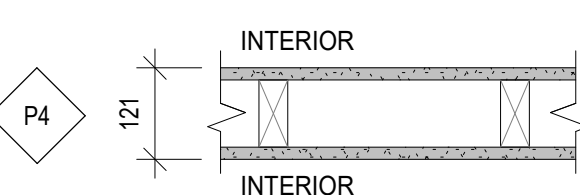
P3A: PARTITION WALL

- 16mm GYPSUM BOARD
- 13mm PLYWOOD
- 38x184mm WOOD STUD, 300mm o/c MAX. (REFER TO STRUCTURAL)
- 16mm GYPSUM BOARD



P3B: PARTITION WALL

- 16mm GYPSUM BOARD
- 13mm PLYWOOD
- VAPOUR BARRIER
- 38x184mm WOOD STUD 300mm o/c MAX. (REFER TO STRUCTURAL) /W 184mm BATT INSULATION TO FILL CAVITY

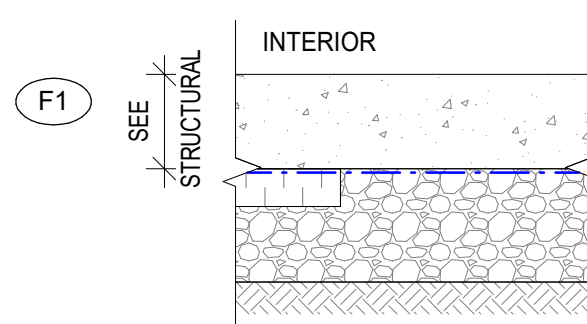
P4: PARTITION WALL
1HR FIRE-RATED ULC W301

- 16mm TYPE 'X' GYPSUM BOARD
- 38x89mm WOOD STUD, 300mm o/c
- 16mm TYPE 'X' GYPSUM BOARD

P4 NOTE: TOP OF WALL TO EXTEND TO UNDERSIDE OF ROOF SHEATHING AND FIRE STOP AROUND TRUSS MEMBERS PENETRATING THE WALL.

P4 NOTE: BATT INSULATION TO FILL CAVITY FOR SOUND ATTENUATION WHERE SHOWN ON PLAN

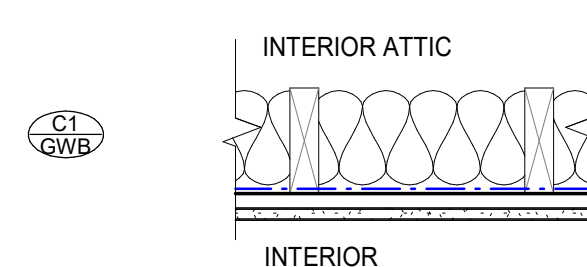
FLOOR ASSEMBLIES



F1: FLOOR (SLAB ON GRADE)

- FINISH (REFER TO ROOM FINISH SCHEDULE)
- CAST IN PLACE CONCRETE (REFER TO STRUCTURAL)
- UNDERSLAB VAPOUR BARRIER
- 100mm UNDERSLAB RIGID INSULATION @ PERIMETER OF SOG (1220mm WIDTH FROM FOUNDATION WALL)
- GRANULAR-B FILL (REFER TO STRUCTURAL)

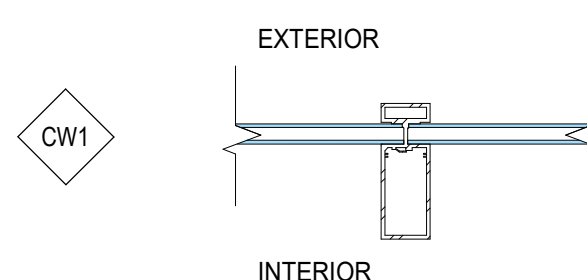
CEILING ASSEMBLIES



C1: CEILING

- PREFABRICATED WOOD TRUSS BOTTOM CHORD (REFER TO STRUCTURAL) /W 200mm BATT INSULATION TO FILL CAVITY
- VAPOUR BARRIER
- 19x64mm WOOD FURRING AT 300mm o/c
- 13mm GYPSUM BOARD

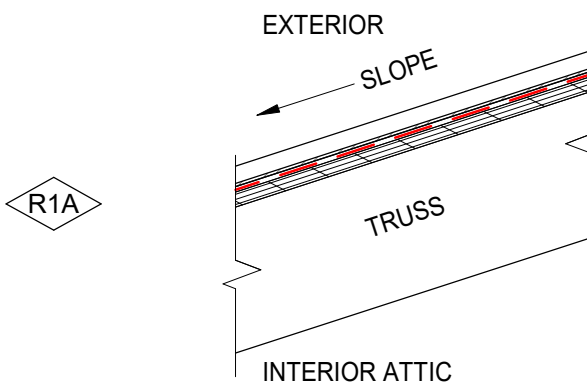
CURTAIN WALL ASSEMBLIES



CW1: STOREFRONT

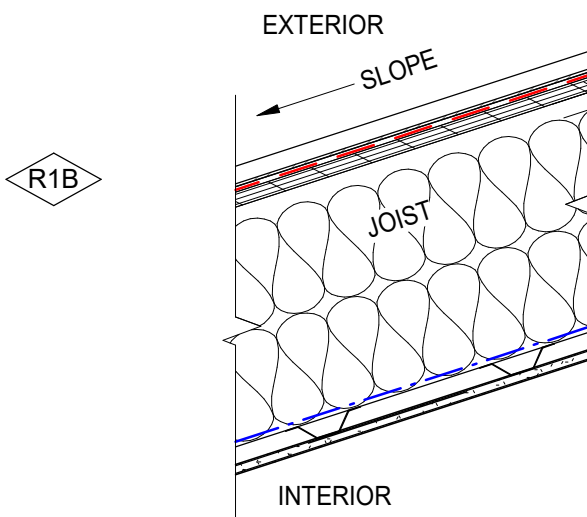
- 150mm EXTRUDED ALUMINUM CURTAIN WALL W/ DOUBLE PANE SEALED GLAZING

ROOF ASSEMBLIES



R1A: ROOF

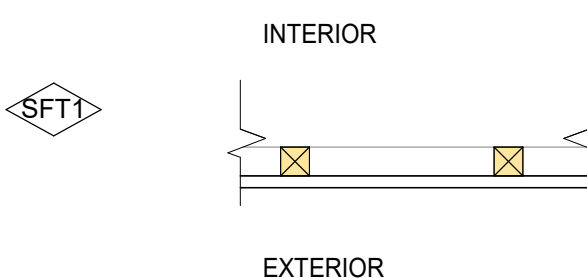
- METAL STANDING SEAM ROOFING
- WATERPROOF MEMBRANE
- 16mm T/G EXTERIOR GRADE ROOF SHEATHING (REFER TO STRUCTURAL)
- PREFABRICATED WOOD TRUSS (REFER TO STRUCTURAL)



R1B: ROOF

- METAL STANDING SEAM ROOFING
- WATERPROOF MEMBRANE
- 16mm T/G EXTERIOR GRADE ROOF SHEATHING (REFER TO STRUCTURAL)
- WOOD RAFTERS (REFER TO STRUCTURAL), W/ 22mm AIR SPACE AND 2 LAYERS OF 140mm BATT INSULATION
- VAPOUR BARRIER
- 22mm METAL FURRING CHANNEL
- 13mm GYPSUM BOARD (ALTERNATE DESIGN: WOOD SLAT CEILINGS)

SOFFIT ASSEMBLIES



SFT1: METAL SOFFIT

- 38x38mm EXTERIOR GRADE BATTEN SUPPORT
- METAL SOFFIT

NOTE: PROVIDE VENTED SOFFIT AS REQUIRED TO MEET VENTILATION REQUIREMENTS FOR THE I JOISTS AND TRUSSES.

0	2026-07-30	ISSUED FOR TENDER	W.H.
No.	Date	Description	By

STAMPS:



ARCHITECT:
C²Architecture
C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
☎ 905.697.4464



PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
GENERAL INFORMATION & CONSTRUCTION ASSEMBLIES

DISCIPLINE:
ARCHITECTURE

DRAFTER: M.M.	SCALE: AS NOTED
DESIGNER: M.M.	DATE: 2026-07-30
APPROVER: W.H.	CHECKER: S.A.
PROJECT No.: Z0029853	DRAWING No.: A001
SHEET No.: 1 of 20	

LIFE SAFETY LEGEND

- 1 HR FIRE RATING
- TRAVEL DISTANCE
- ▲ SECONDARY ENTRANCE / EXIT AT GRADE
- ▽ PRINCIPLE ENTRANCE
- ⊗ FIRE EXTINGUISHER

GROUND FLOOR LIFE SAFETY PLAN

1 A002 SCALE: 1 : 100

ROOMS AND OCCUPANCY:

- MULTI-PURPOSE ROOM EAST: 43.4 m², 25 OCCUPANTS
- MULTI-PURPOSE ROOM WEST: 90.6 m², 55 OCCUPANTS
- STORAGE ROOM: 1014
- FLEX SPACE: 31.8 m², 10 OCCUPANTS
- CORRIDOR: 2002
- VESTIBULE: 1017
- BE W.R. 1: 9009
- W.R. 1: 9008
- W.R. 2: 9007
- W.R. 3: 9010
- W.R. 4: 9006
- KITCHEN: 9013
- UTILITY ROOM: 2012
- IT RM.: 4015
- OFFICE: 32.6 m², 4 OCCUPANTS

TRAVEL DISTANCES:

- MULTI-PURPOSE ROOM WEST: 19.6m
- VESTIBULE: 12.1m

ENTRANCES:

- PRINCIPLE ENTRANCE: VESTIBULE
- SECONDARY ENTRANCE / EXIT AT GRADE: Multiple locations marked with ▲

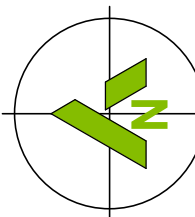
FIRE RATING: 1 HR

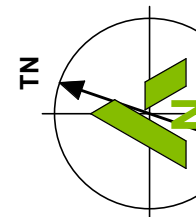
FIRE EXTINGUISHERS: Located in the CORRIDOR and near the KITCHEN.

0	2026-07-30	ISSUED FOR TENDER	W.H.
No.	Date	Description	By

STAMP:

ONTARIO ASSOCIATION
2607030
OF
ARCHITECTS
William G. Harris
WILLIAM G. HARRIS
LICENCE
8752


PROJECT NORTH


TRUE NORTH

ARCHITECT:

C²Architecture

C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
☎ 905.697.4464

CLIENT:



Ganaraska
CONSERVATION

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

OBC COMPLIANCE AND LIFE SAFETY

DISCIPLINE:

ARCHITECTURE

DRAWER:

M.M.

SCALE:

AS NOTED

DESIGNER:

M.M.

DATE:

2026-07-30

APPROVER:

W.H.

CHECKER:

S.A.

PROJECT No:

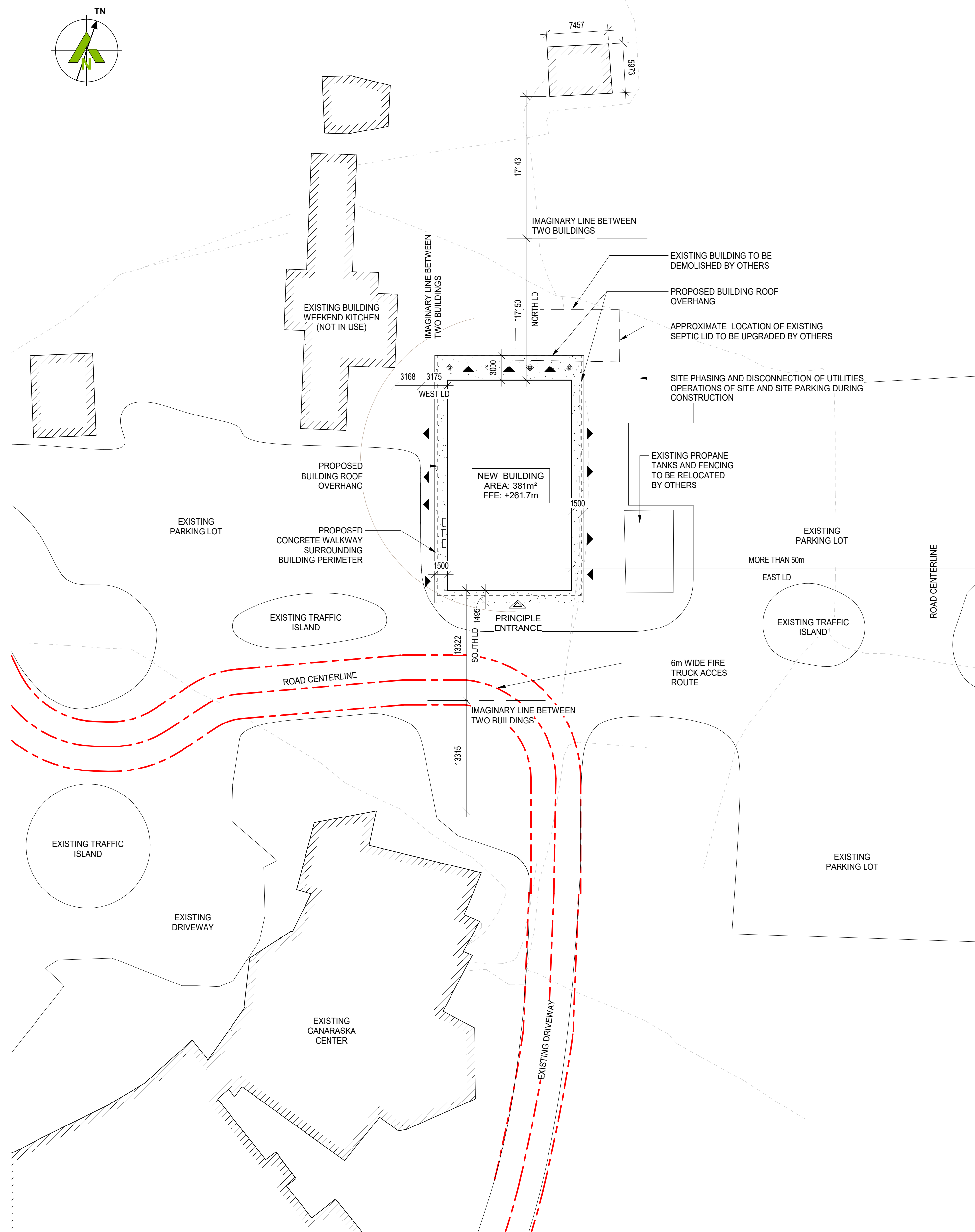
Z0029853

DRAWING No:

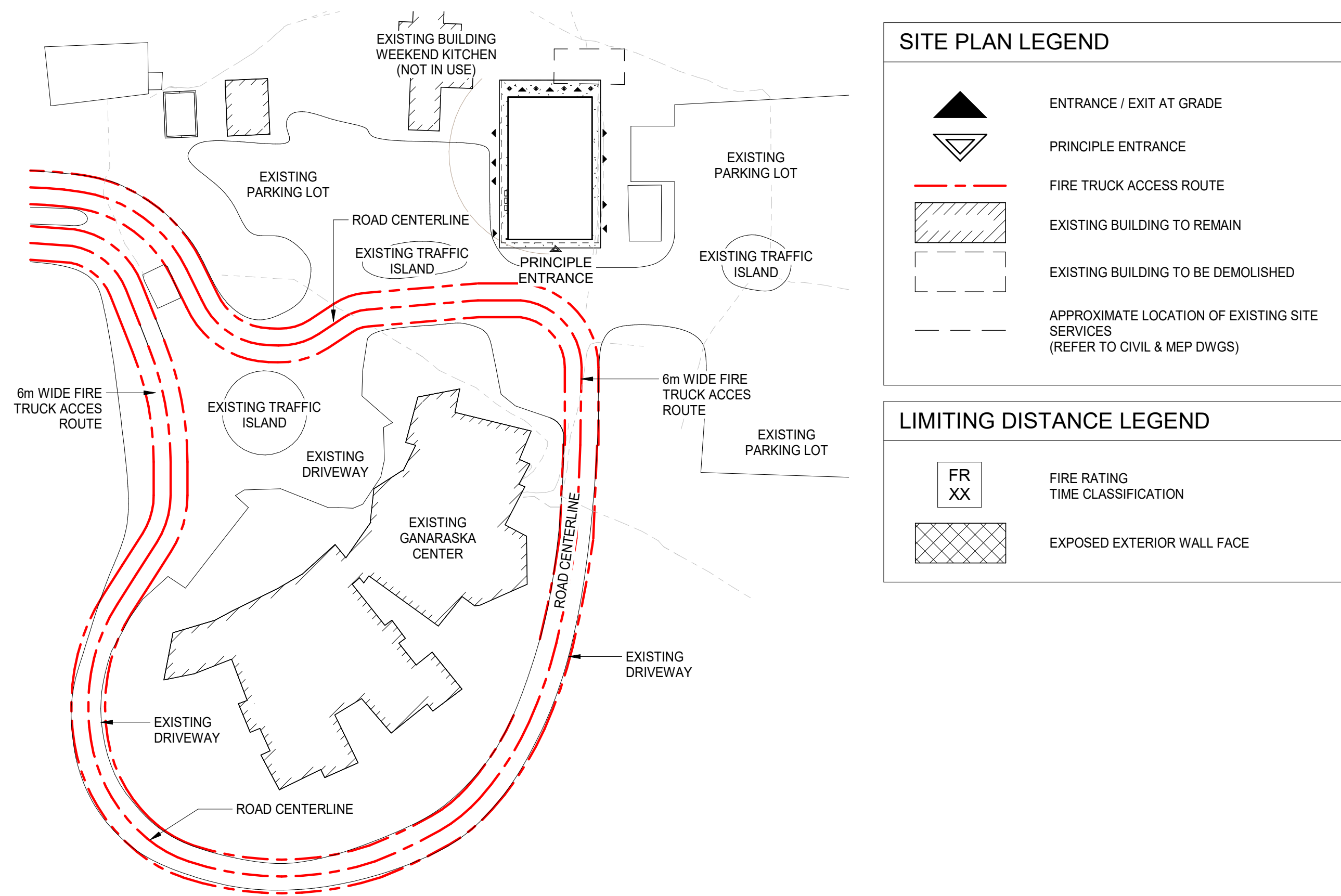
A002

SHEET No:

2 of 20



5 SITE PLAN
A003 SCALE: 1 : 300



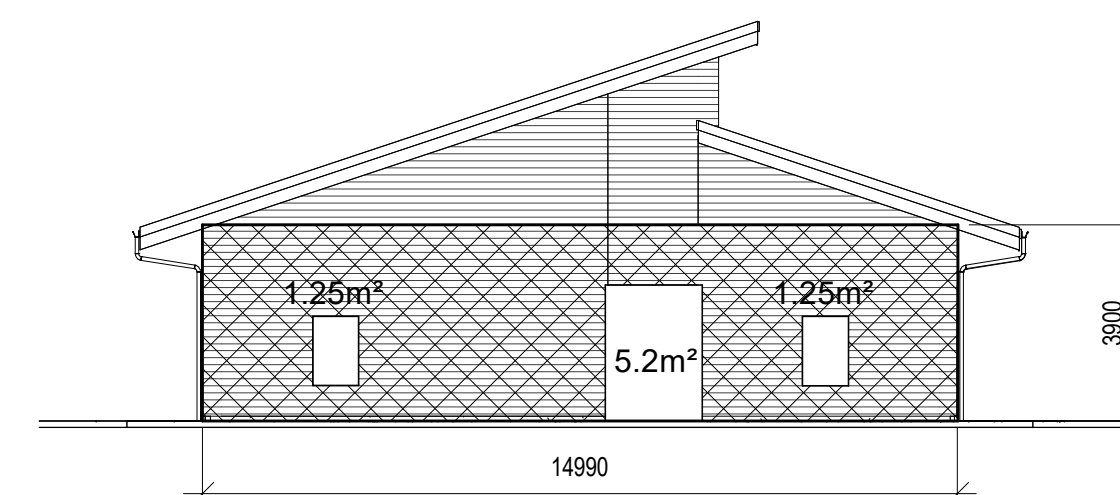
6 SITE PLAN - FIRE TRUCK ROUTE

EXPOSED BUILDING FACE: 58.5 m²
UNPROTECTED OPENINGS: 7.7 m²
% UNPROTECTED OPENINGS: 13.2%

RATIO L/H: 3.8 : 1

EXPOSING BUILDING FACE: 78.2 m²
UNPROTECTED OPENINGS: 12.0 m²
% UNPROTECTED OPENINGS: 15.3%

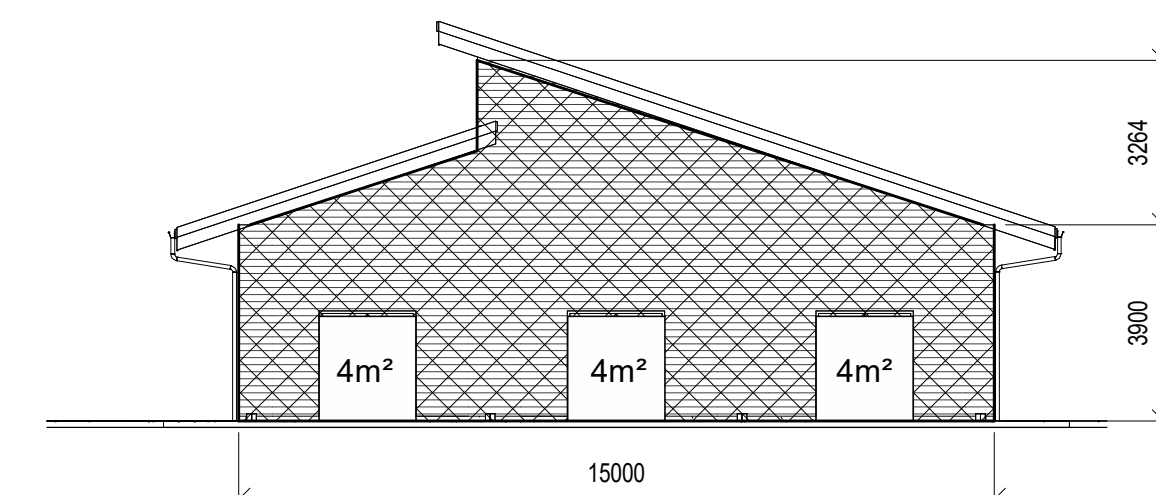
RATIO L/H: 2.1 :1



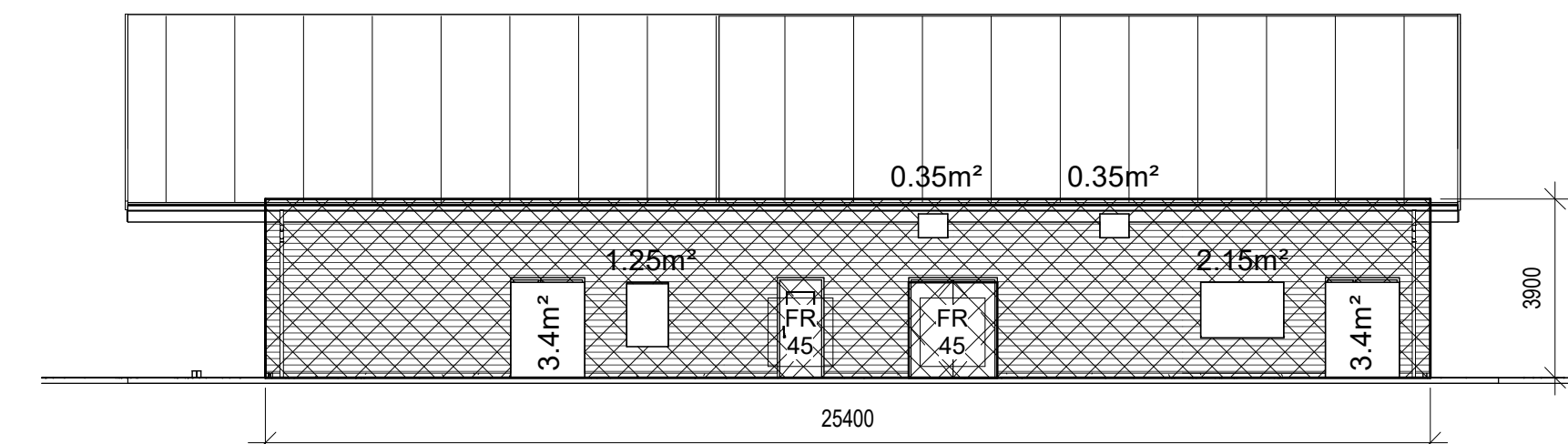
1 SOUTH ELEVATION
A003 SCALE: 1 : 150

EXPOSED BUILDING FACE: 99.1 m²
UNPROTECTED OPENINGS: 10.9 m²
% UNPROTECTED OPENINGS: 11%

RATIO L/H: 6.5 : 1



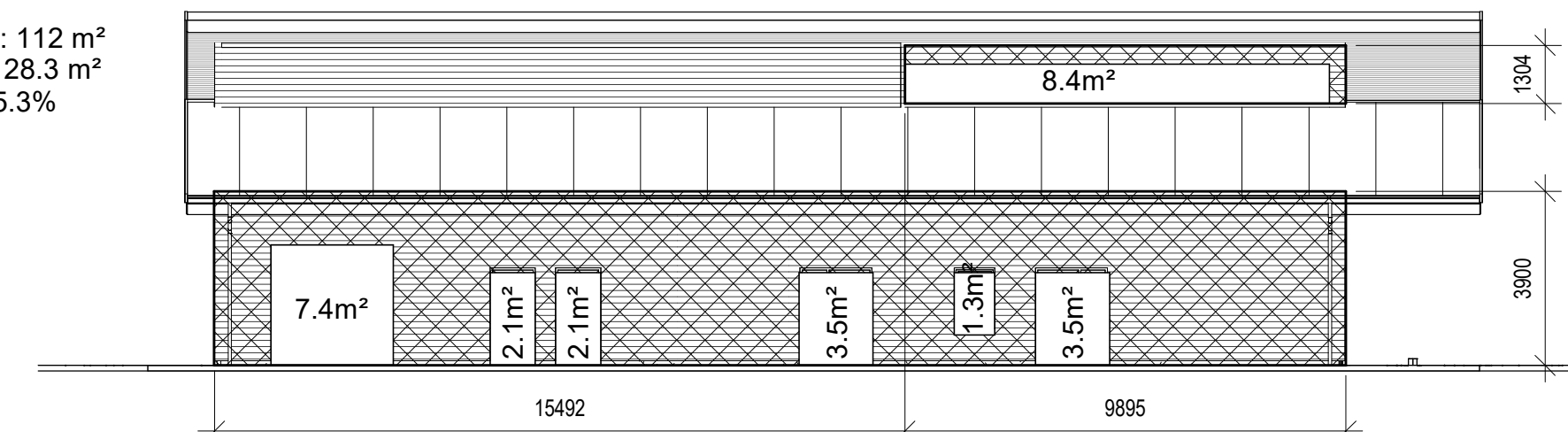
2 NORTH ELEVATION
A003 SCALE: 1 : 150



3 WEST ELEVATION
A003 SCALE: 1 : 150

EXPOSING BUILDING FACE(EBF) : 112 m²
UNPROTECTED OPENINGS(UO) : 28.3 m²
% UNPROTECTED OPENINGS : 25.3%

RATIO L/H: 4.8 : 1



4 EAST ELEVATION
A003 SCALE: 1 : 150

SITE PLAN LEGEND

	ENTRANCE / EXIT AT GRADE
	PRINCIPLE ENTRANCE
	FIRE TRUCK ACCESS ROUTE
	EXISTING BUILDING TO REMAIN
	EXISTING BUILDING TO BE DEMOLISHED
	APPROXIMATE LOCATION OF EXISTING SITE SOURCES (REFER TO CIVIL & MEP DWGS)

LIMITING DISTANCE LEGEND

	FIRE RATING TIME CLASSIFICATION
	EXPOSED EXTERIOR WALL FACE

0	2026-07-30	ISSUED FOR TENDER	W/H
No.	Date	Description	By



ARCHITECT:

C² Architecture

C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
☎ 905.697.4464

CLIENT: 

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

SITE PLAN & LIMITING DISTANCE

DISCIPLINE: ARCHITECTURE

DRAFTER:	M.M.	SCALE:	AS NOTED
DESIGNER:	M.M.	DATE:	2026-07-30
APPROVER:	W.H.	CHECKER:	S.A.
PROJECT No:	Z0029853	DRAWING No:	A003
SHEET No:	3 of 20		



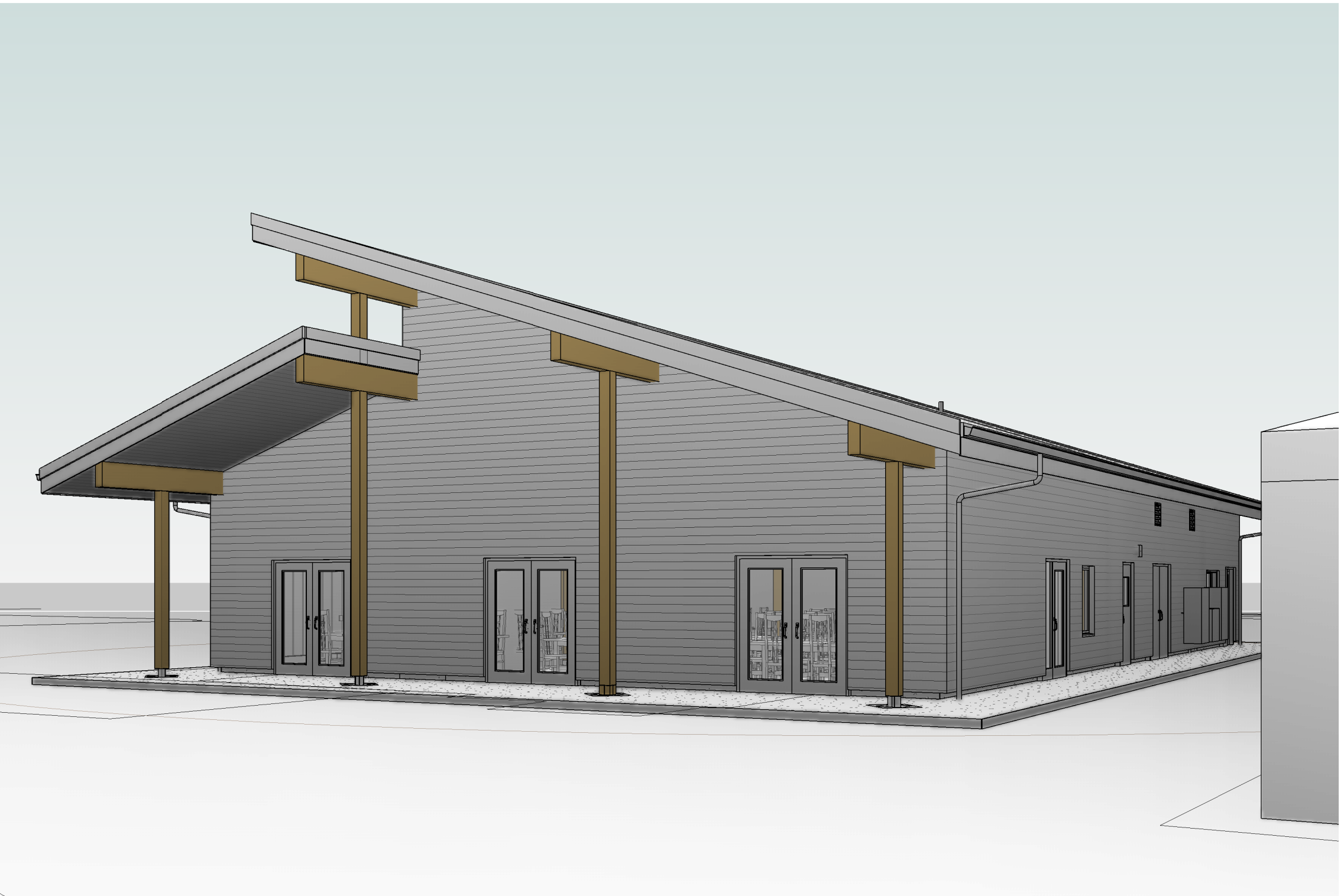
GRAPHIC DEMONSTRATED FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO ALL CONTRACT DOCUMENTS (I.E. PLANS, WALL SECTIONS, DETAILS, ASSEMBLY TYPES, ETC.) FOR LOCATIONS AND DETAIL INTERFACES.



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No.	Date	Description	By



ARCHITECT:

C²Architecture

C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
📞 905.697.4464



PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

BUILDING 3D VIEWS

DISCIPLINE: ARCHITECTURE

DRAWER:	M.M.	SCALE:	AS NOTED
DESIGNER:	M.M.	DATE:	2026-07-30
APPROVER:	W.H.	CHECKER:	S.A.
PROJECT No:	Z0029853	DRAWING No:	A004
SHEET No:	4 of 20		

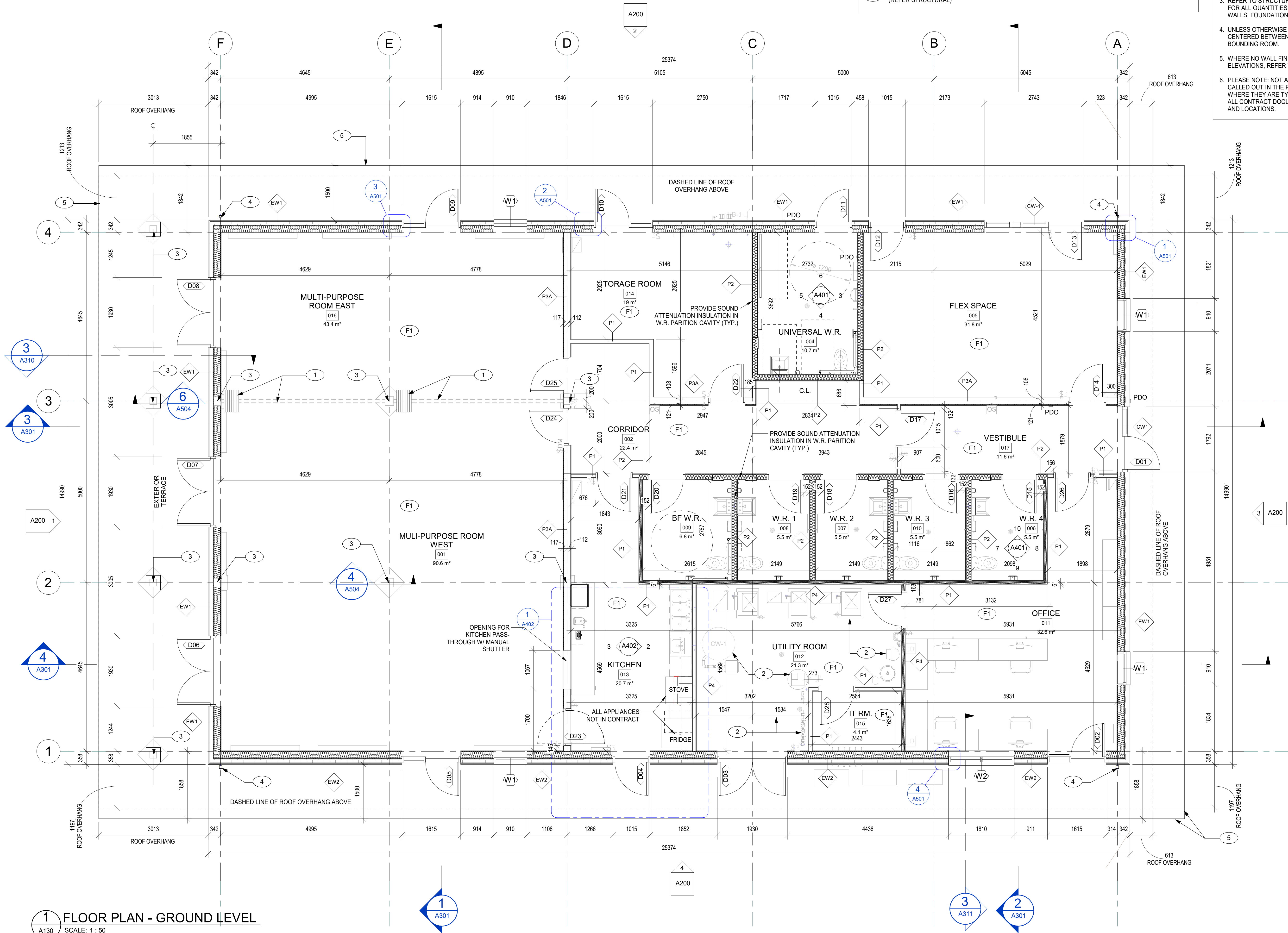
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PLAN KEYNOTE LEGEND

- | | | | |
|---|--|---|------------------------------------|
| 1 | SOLID OPERABLE WALL, WOOD FINISH, WITH OVERHEAD SUPPORT COORDINATE WITH VENDOR (NOT IN CONTRACT) | 4 | SQUARE PREFINISHED METAL DOWNSPOUT |
| 2 | MECHANICAL / ELECTRICAL EQUIPMENT (REFER TO MECHANICAL / ELECTRICAL) | 5 | CONCRETE SIDEWALK (REFER TO CIVIL) |
| 3 | STRUCTURAL COLUMN (REFER STRUCTURAL) | | |

PLAN GENERAL NOTES

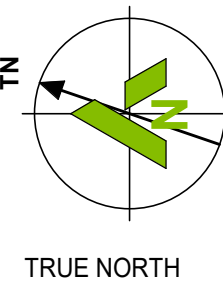
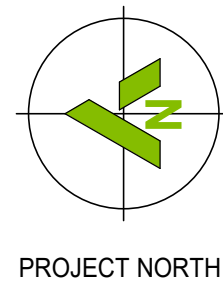
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- REFER TO STRUCTURAL DRAWINGS / SPECIFICATIONS FOR ALL QUANTITIES / LOCATIONS OF CONCRETE WALLS, FOUNDATIONS, AND SLABS.
- UNLESS OTHERWISE INDICATED, LIGHTING TO BE CENTERED BETWEEN INTERIOR PARTITIONS OF BOUNDING ROOM.
- WHERE NO WALL FINISH HAS BEEN NOTED ON THE ELEVATIONS, REFER TO THE ROOM FINISH SCHEDULE.
- PLEASE NOTE: NOT ALL PLAN BASED DETAILS ARE CALLED OUT IN THE PLANS. DETAILS ARE LABELED TYP. WHERE THEY ARE TYPICAL. CONTRACTOR TO REVIEW ALL CONTRACT DOCUMENTS TO IDENTIFY QUANTITIES AND LOCATIONS.



1 FLOOR PLAN - GROUND LEVEL
SCALE: 1 : 50

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No.	Date	Description	By

STAMP:



ARCHITECT:
C2 Architecture
C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
905.697.4464

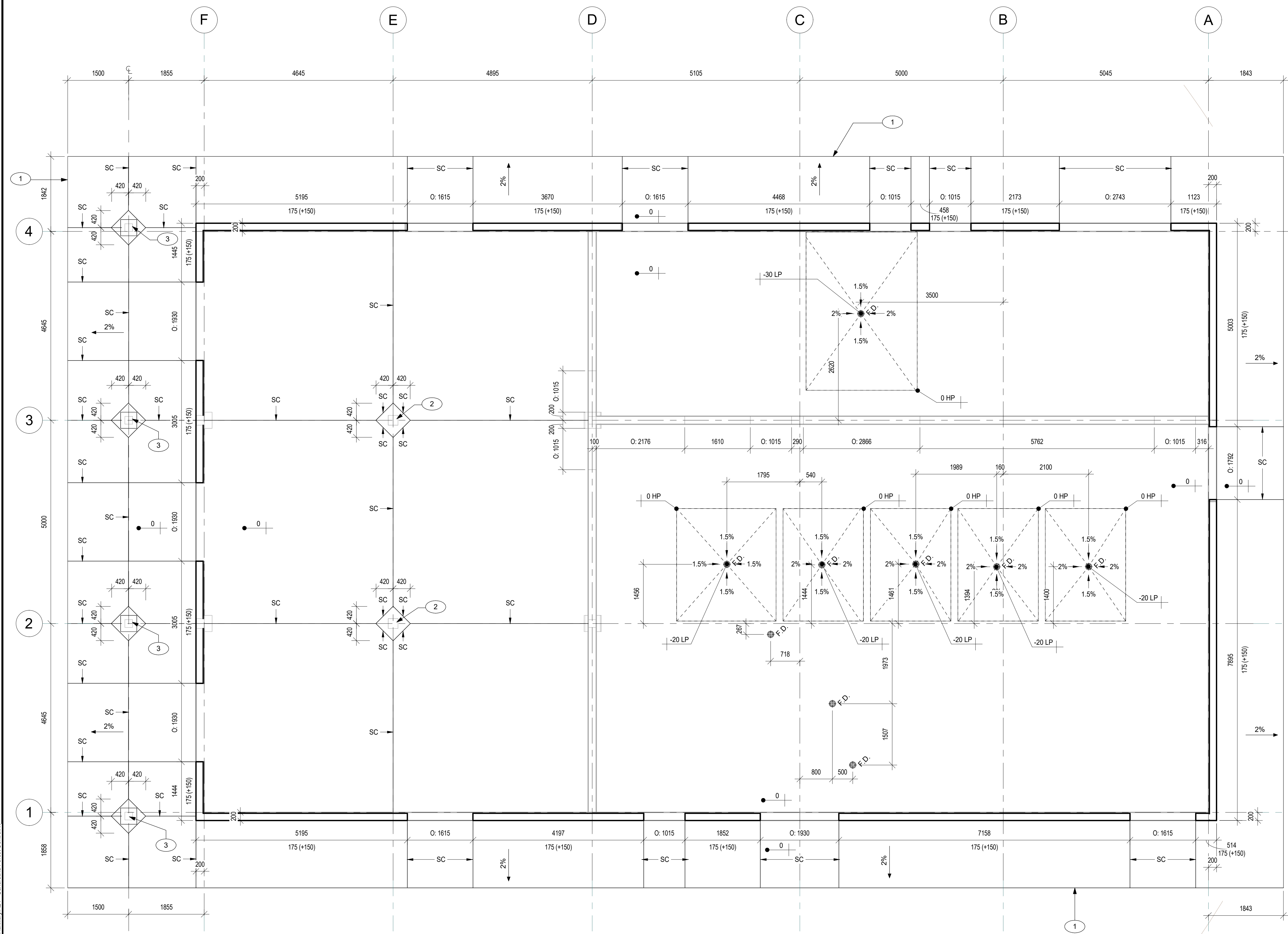


PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
FIRST FLOOR PLAN

DISCIPLINE:
ARCHITECTURE

DRAWER:	M.M.	SCALE:	AS NOTED
DESIGNER:	C2/CIMA	DATE:	2026-07-30
APPROVER:	W.H.	CHECKER:	S.A.
PROJECT No.:	Z0029853	DRAWING No.:	A130
SHEET No.:	5 of 20		



1 FLOOR PLAN - GROUND LEVEL SLAB EDGE PLAN
A131 SCALE: 1 : 50

SC	SAW CUT CONTROL JOINT
JF	JOINT FILLER

[illegible]

ARCHITECT:



C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
📞 905.697.4464

CLIENT:



PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

FIRST FLOOR SLAB EDGE PLAN

DISCIPLINE:

ARCHITECTURE

DRAWER:	MM	SCALE:	AS NOTED
DESIGNER:	C2/CIMA	DATE:	2026-07-30
APPROVER:	WH	CHECKER:	SA
PROJECT No:	Z0029853	DRAWING No:	A131
SHEET No:	6 of 20		

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ROOF PLAN LEGEND

SLOPE

DENOTES DIRECTION OF SLOPE TO DRAIN

R1

ROOF TYPE
(REFER TO CONSTRUCTION ASSEMBLIES)

SNOW GUARDS

ROOF PLAN KEYNOTE LEGEND

1

SNOW GUARD

2

PREFINISHED METAL GUTTER

3

SQUARE PREFINISHED METAL DOWNSPOUT

- PLAN GENERAL NOTES
1. REFER TO ELECTRICAL DRAWINGS / SPECIFICATIONS FOR ALL QUANTITIES / LOCATIONS OF ELECTRICAL RECEPTACLES.

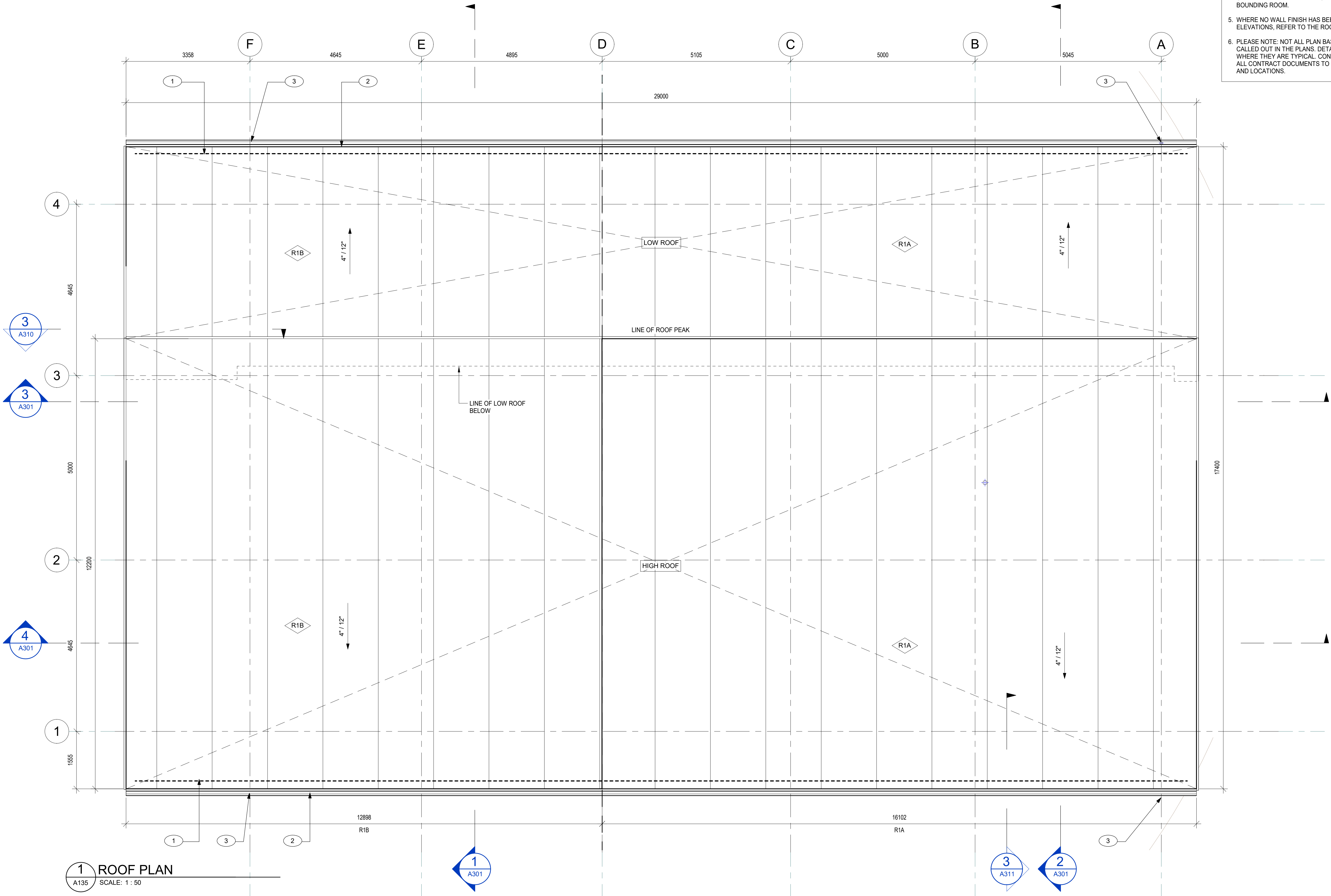
2. REFER TO MECHANICAL DRAWINGS / SPECIFICATIONS FOR ALL QUANTITIES / LOCATIONS OF MECHANICAL RECEPTACLES.

3. REFER TO STRUCTURAL DRAWINGS / SPECIFICATIONS FOR ALL QUANTITIES / LOCATIONS OF CONCRETE WALLS, FOUNDATIONS, AND SLABS.

4. UNLESS OTHERWISE INDICATED, LIGHTING TO BE CENTERED BETWEEN INTERIOR PARTITIONS OF BOUNDING ROOM.

5. WHERE NO WALL FINISH HAS BEEN NOTED ON THE ELEVATIONS, REFER TO THE ROOM FINISH SCHEDULE.

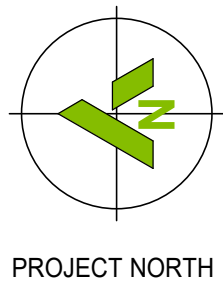
6. PLEASE NOTE: NOT ALL PLAN BASED DETAILS ARE CALLED OUT IN THE PLANS. DETAILS ARE LABELED TYP. WHERE THEY ARE TYPICAL. CONTRACTOR TO REVIEW ALL CONTRACT DOCUMENTS TO IDENTIFY QUANTITIES AND LOCATIONS.



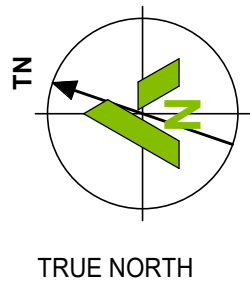
0	2026-07-30	ISSUED FOR TENDER	W.H.
No.	Date	Description	By

STAMPS:

ONTARIO ASSOCIATION
OF
ARCHITECTS
2607/00
William G. Harispuru
WILLIAM G. HARISPURU
LICENCE
8752



PROJECT NORTH



TRUE NORTH

ARCHITECT:

C²Architecture

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CLIENT:

PROJECT NAME:

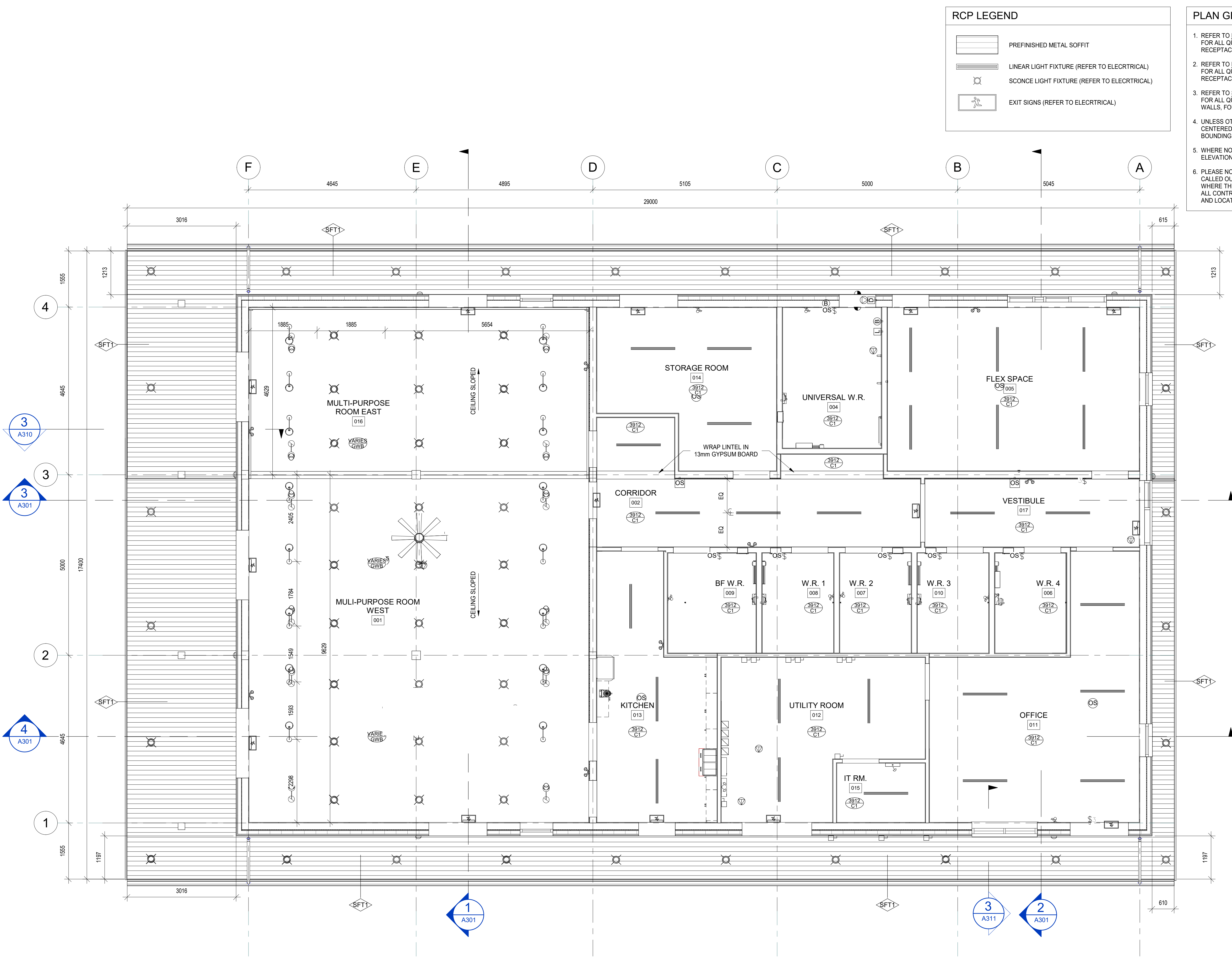
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

ROOF PLAN

DISCIPLINE:		ARCHITECTURE	
DRAFTER:	M.M.	SCALE:	AS NOTED
DESIGNER:	C2/CIMA	DATE:	2026-07-30
APPROVER:	W.H.	CHECKER:	S.A.
PROJECT No:	Z0029853	DRAWING No: A135	
SHEET No:	7 of 20		

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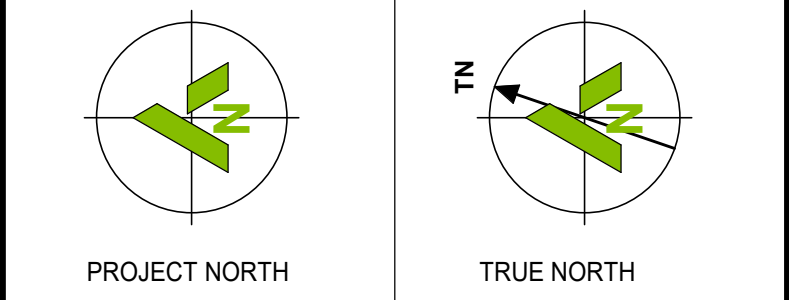
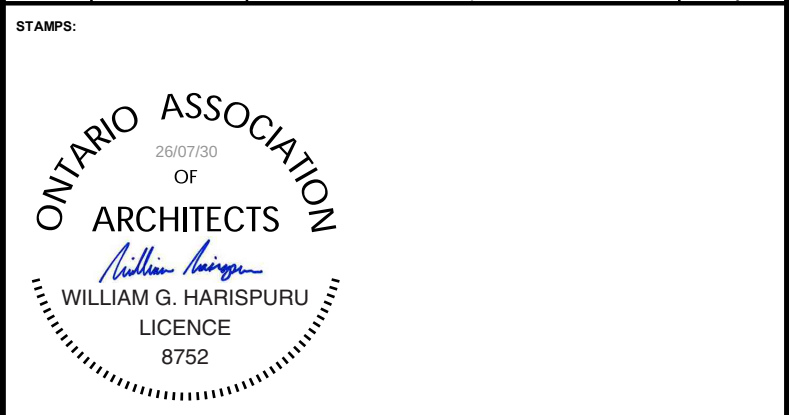
PLAN GENERAL NOTES

1. REFER TO ELECTRICAL DRAWINGS / SPECIFICATIONS FOR ALL QUANTITIES / LOCATIONS OF ELECTRICAL RECEPTACLES.
2. REFER TO MECHANICAL DRAWINGS / SPECIFICATIONS FOR ALL QUANTITIES / LOCATIONS OF MECHANICAL RECEPTACLES.
3. REFER TO STRUCTURAL DRAWINGS / SPECIFICATIONS FOR ALL QUANTITIES / LOCATIONS OF CONCRETE WALLS, FOUNDATIONS, AND SLABS.
4. UNLESS OTHERWISE INDICATED, LIGHTING TO BE CENTERED BETWEEN INTERIOR PARTITIONS OF BOUNDING ROOM.
5. WHERE NO WALL FINISH HAS BEEN NOTED ON THE ELEVATIONS, REFER TO THE ROOM FINISH SCHEDULE.
6. PLEASE NOTE: NOT ALL PLAN BASED DETAILS ARE CALLED OUT IN THE PLANS. DETAILS ARE LABELED TYP. WHERE THEY ARE TYPICAL. CONTRACTOR TO REVIEW ALL CONTRACT DOCUMENTS TO IDENTIFY QUANTITIES AND LOCATIONS.

RCP LEGEND

- PREFINISHED METAL SOFFIT
- LINEAR LIGHT FIXTURE (REFER TO ELECTRICAL)
- SCONCE LIGHT FIXTURE (REFER TO ELECTRICAL)
- EXIT SIGNS (REFER TO ELECTRICAL)

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No.	Date	Description	By



ARCHITECT:
C2 Architecture
C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
905.697.4464



PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
FIRST FLOOR RCP

DISCIPLINE: ARCHITECTURE	
DRAFTER: M.M.	SCALE: AS NOTED
DESIGNER: M.M.	DATE: 2026-07-30
APPROVER: W.H.	CHECKER: S.A.
PROJECT No.: Z0029853	DRAWING No.: A150
SHEET No.: 8 of 20	

TITLEBLOCK 24x36 VERT ENG

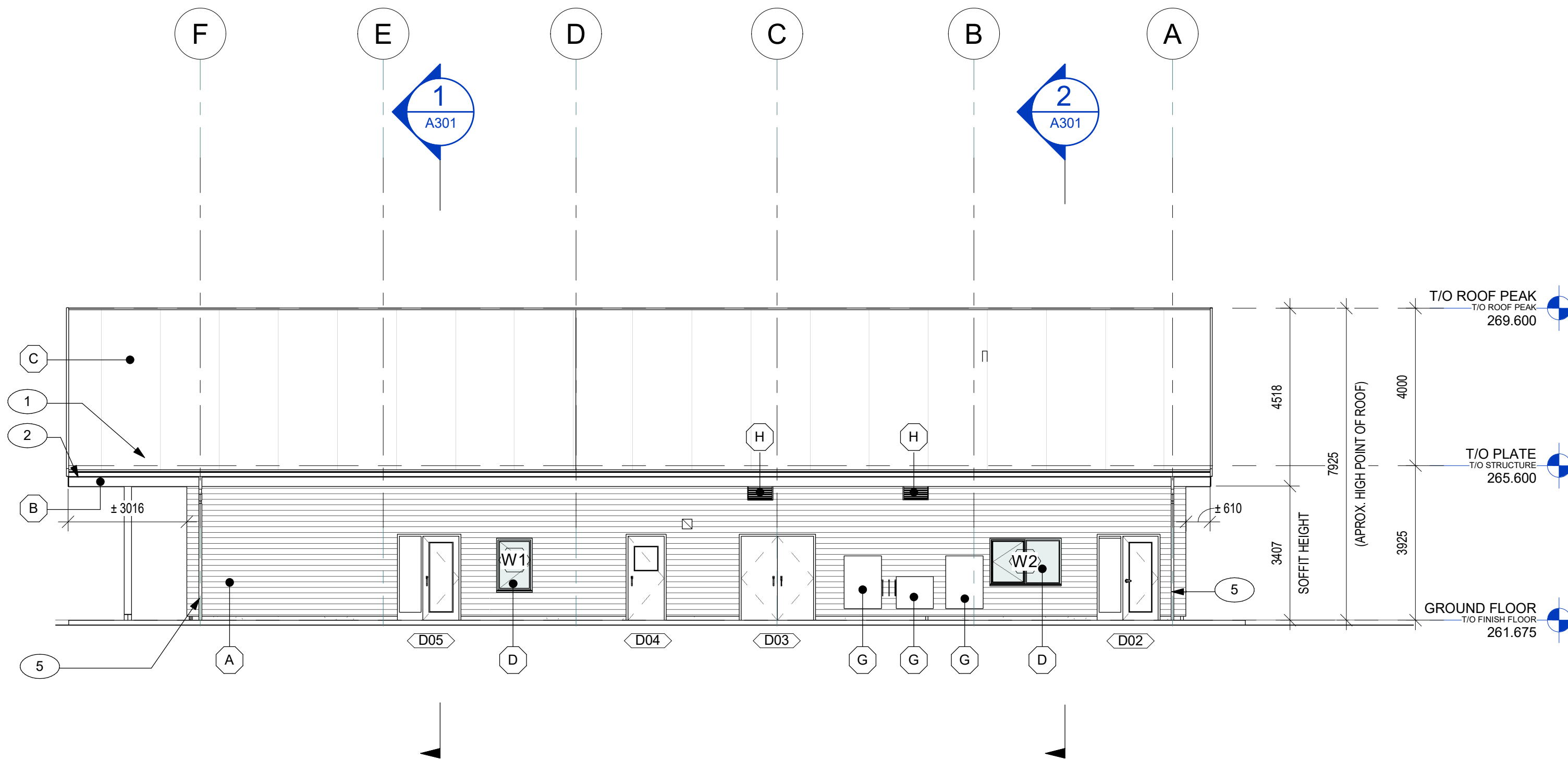
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ELEVATION KEYNOTE LEGEND

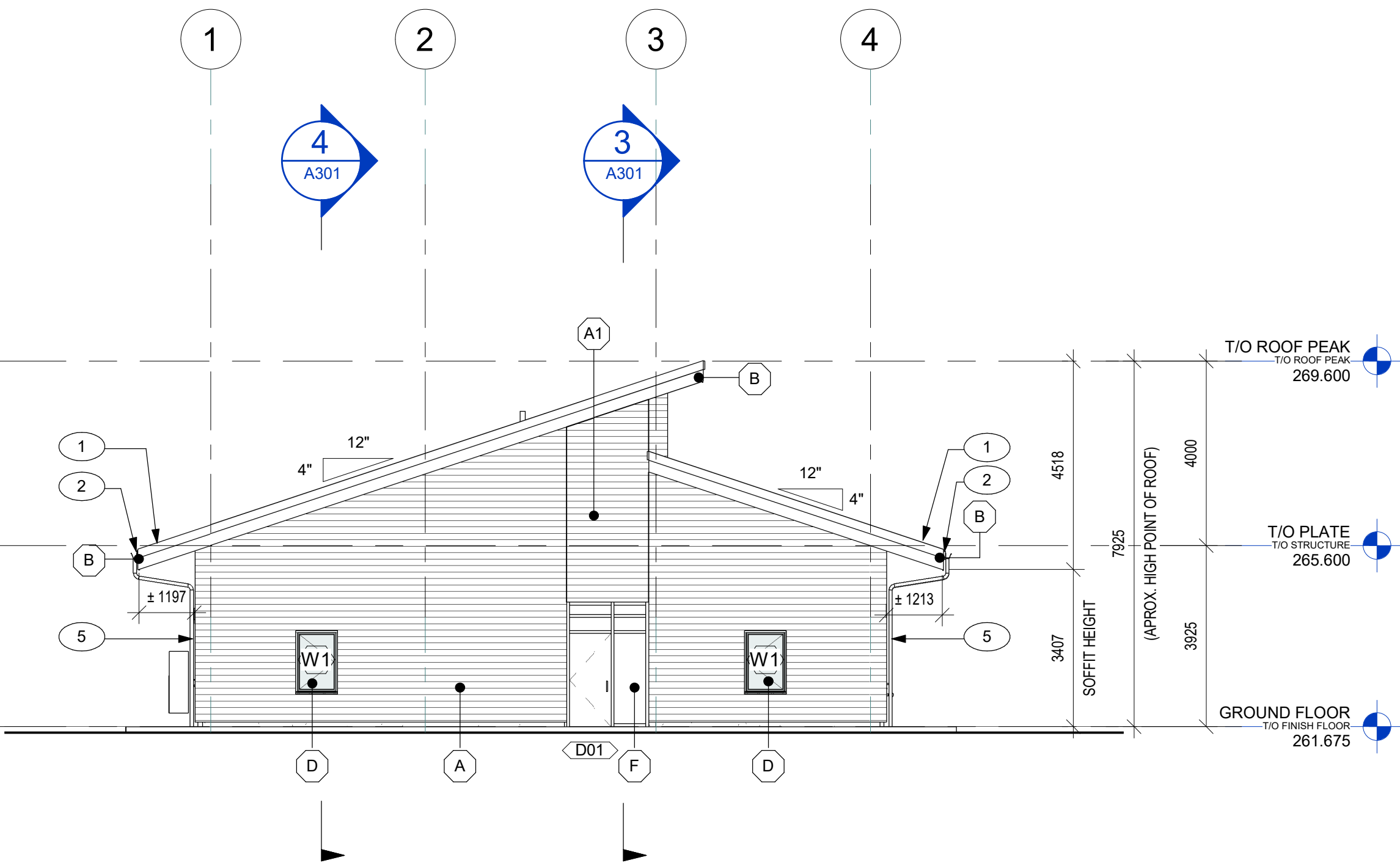
- 1 SNOW GAURD
- 2 PREFINISHED METAL GUTTER
- 3 STRUCTURAL COLUMN (REFER TO STRUCTURAL)
- 4 STRUCTURAL BEAM (REFER TO STRUCTURAL)
- 5 SQUARE PREFINISHED METAL DOWNSPOUT

EXTERIOR MATERIALS LEGEND

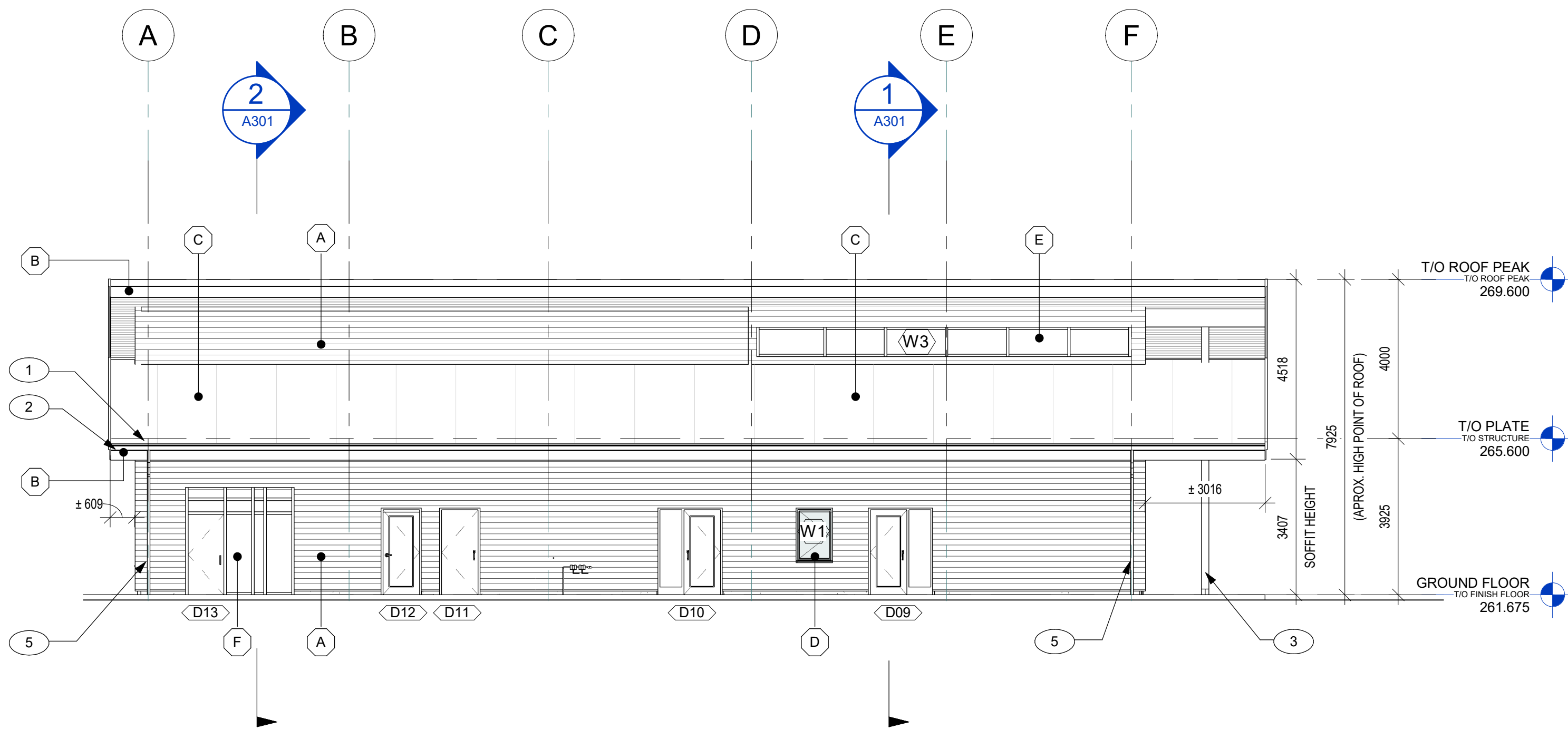
- A ALUMINUM SIDING (WOOD LOOK)
- A1 ALUMINUM SIDING (CONTRAST)
- B PRE-FINISHED METAL FLASHING / EAVES
- C STANDING SEAM METAL ROOFING
- D OPERABLE WINDOW, BLACK FINISH (FINAL COLOR SELECTION BY CONSULTANT)
- E FIXED CLERESTORY WINDOW, BLACK FINISH (FINAL COLOR SELECTION BY CONSULTANT)
- F CURTAIN WALL
- G MECH. EQUIPMENT (REFER TO MECHANICAL)
- H MECH. LOUVER
- I PREFINISHED METAL FLASHING END CAPS AT ALL FIVE EXTERIOR BEAM ENDS (WRAP END OF BEAM PROFILE WITH 25MM WRAP DEPTH)



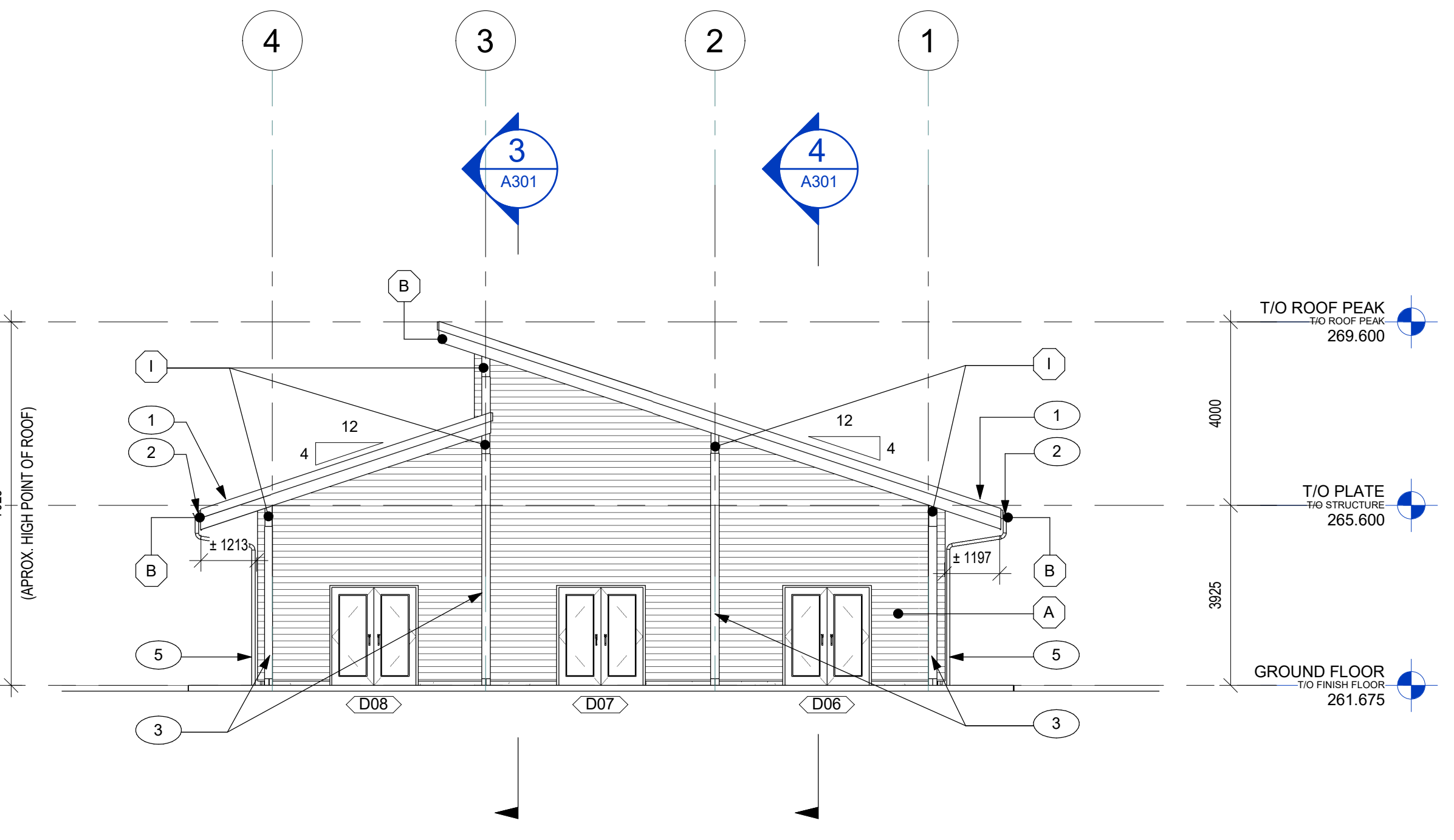
4 WEST ELEVATION
A200 SCALE: 1 : 100



3 SOUTH ELEVATION
A200 SCALE: 1 : 100



2 EAST ELEVATION
A200 SCALE: 1 : 100



1 NORTH ELEVATION
A200 SCALE: 1 : 100



ARCHITECT:
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C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
☎ 905.697.4464



PROJECT NAME:
Ganaraska Forest Centre - Auxiliary Building

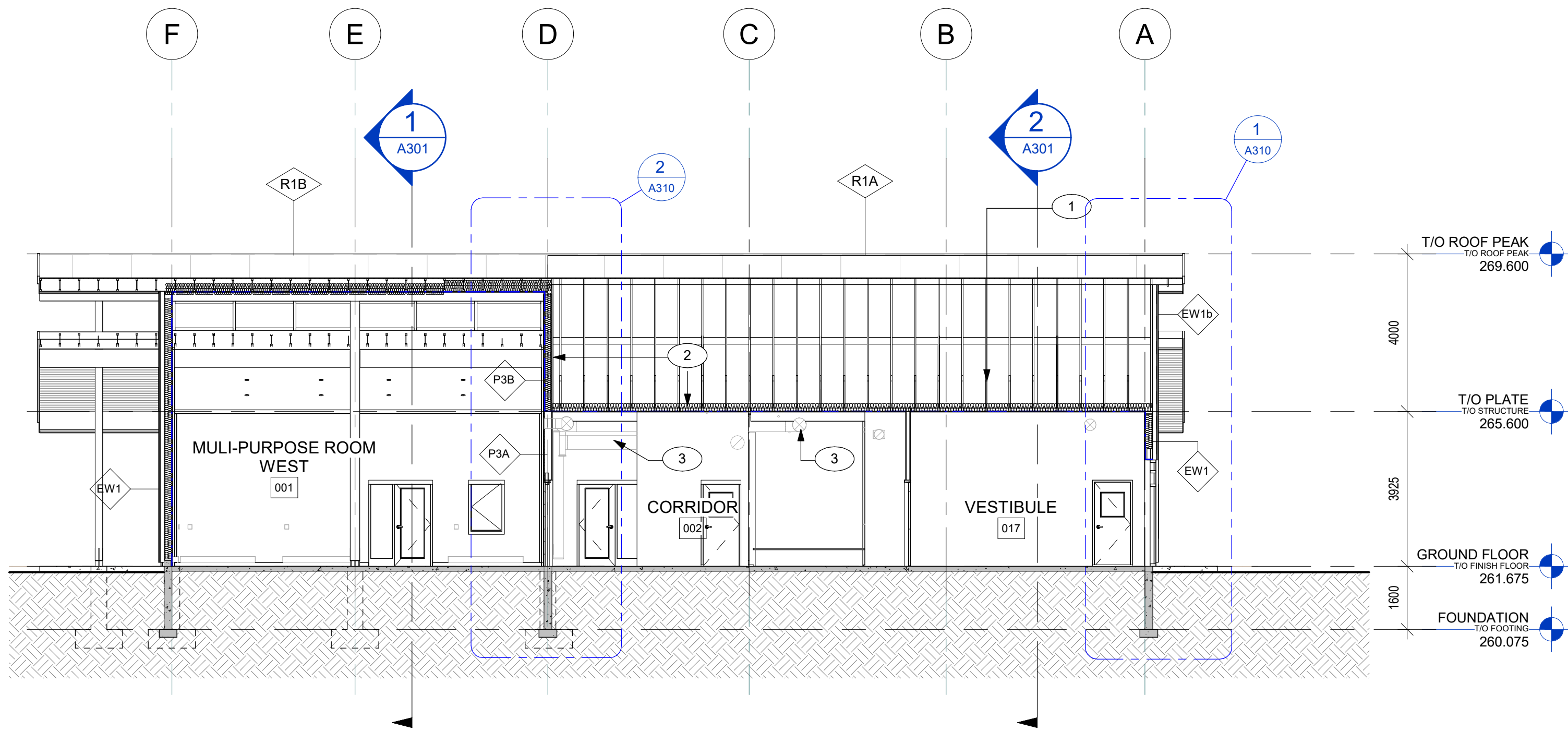
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DISCIPLINE:
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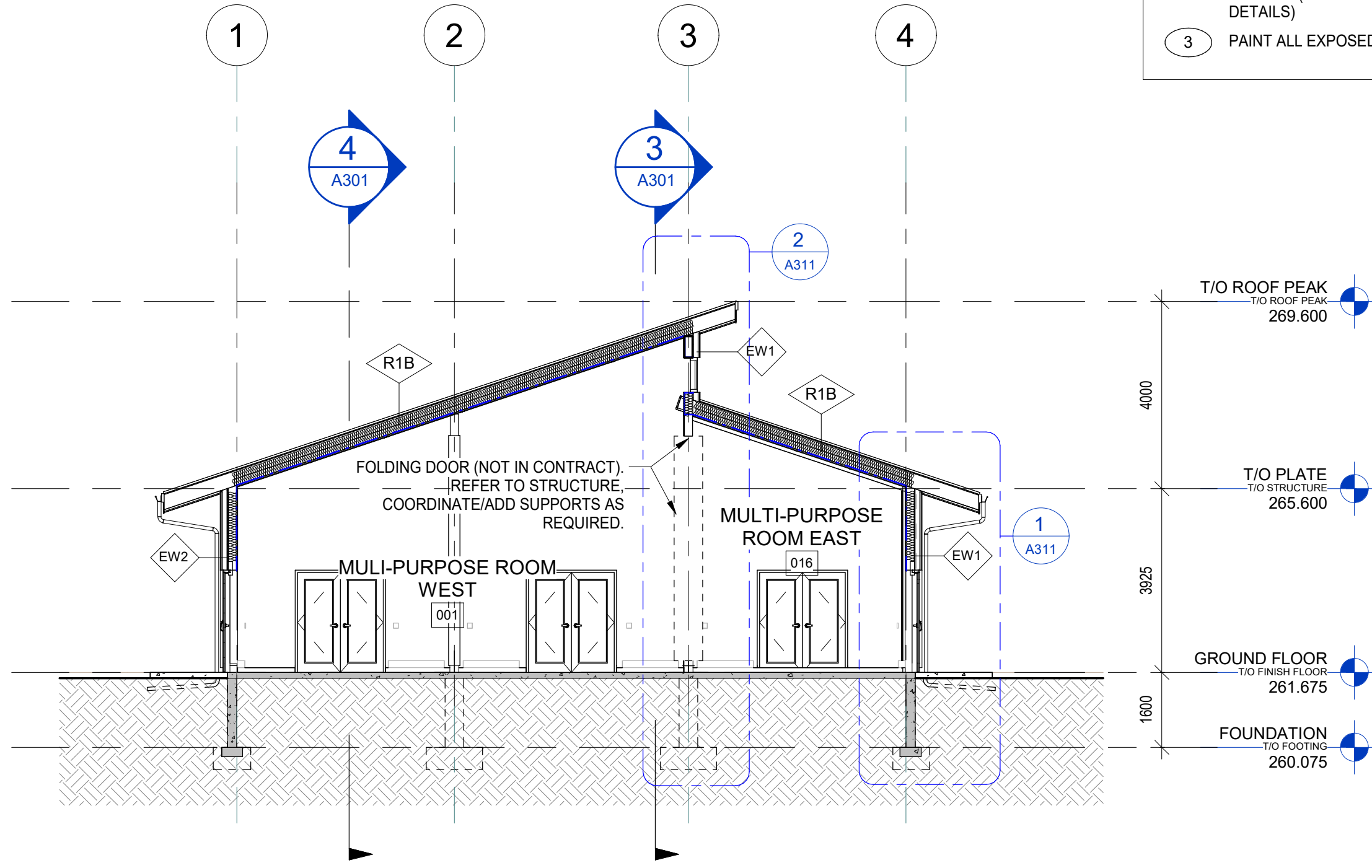
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DESIGNED BY: C2/CIMA	DATE: 2026-07-30
APPROVED BY: W.H.	CHECKED BY: S.A.
PROJECT NO.: Z0029853	DRAWING NO.: A200
SHEET NO.: 9 of 20	

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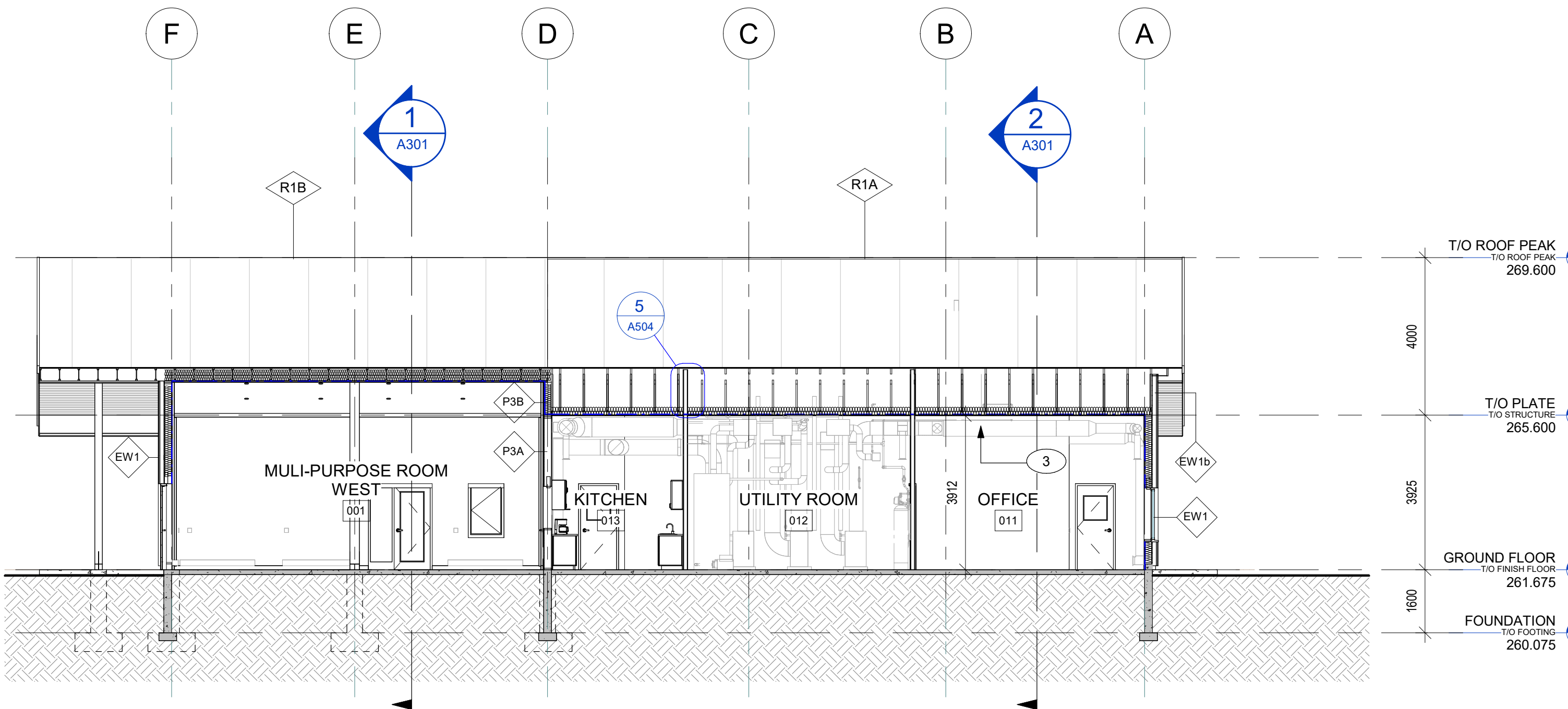
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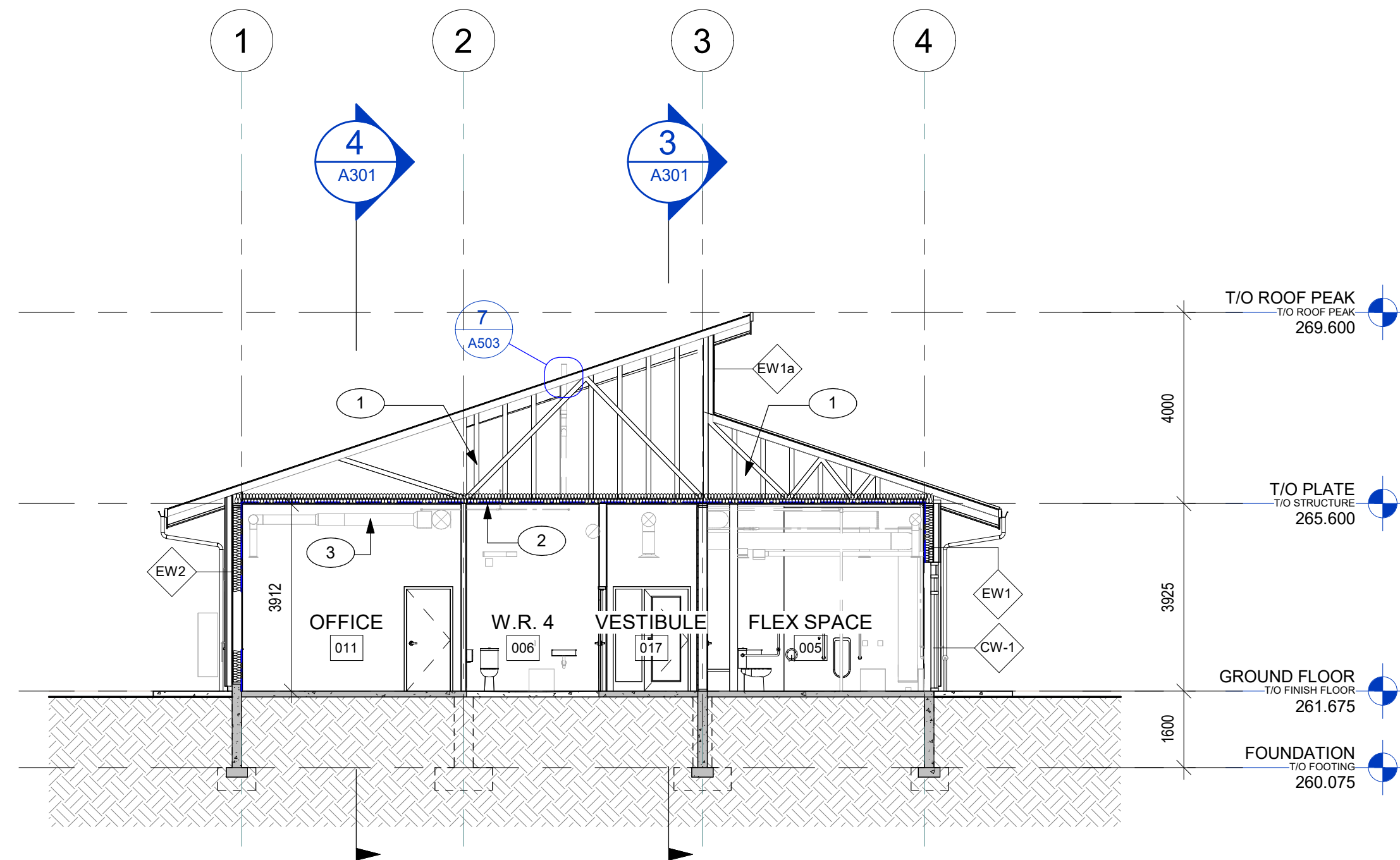
3 BUILDING SECTION NORTH SOUTH - A
A301 SCALE: 1 : 100



1 BUILDING SECTION EAST WEST - A
A301 SCALE: 1 : 100



4 BUILDING SECTION NORTH SOUTH - B
A301 SCALE: 1 : 100



2 BUILDING SECTION EAST WEST - B
A301 SCALE: 1 : 100

SECTION GENERAL NOTES

1. NOTE: NOT ALL SECTION BASED EXTERIOR DETAILS ARE CALLED OUT IN THE WALL SECTIONS. EXTERIOR DETAILS ARE LABELED TYP. WHERE THEY ARE TYPICAL. CONTRACTOR TO REVIEW ALL CONTRACT DOCUMENTS TO IDENTIFY QUANTITY AND LOCATION.

SECTION KEYNOTE LEGEND

- 1 PREFABRICATED WOOD TRUSS
- 2 ATTIC SPACE BATT INSULATION AND VAPOUR BARRIER (REFER TO ASSEMBLY SCHEDULE 7 DETAILS)
- 3 PAINT ALL EXPOSED DUCTS & EQUIPMENT

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No.	Date	Description	By



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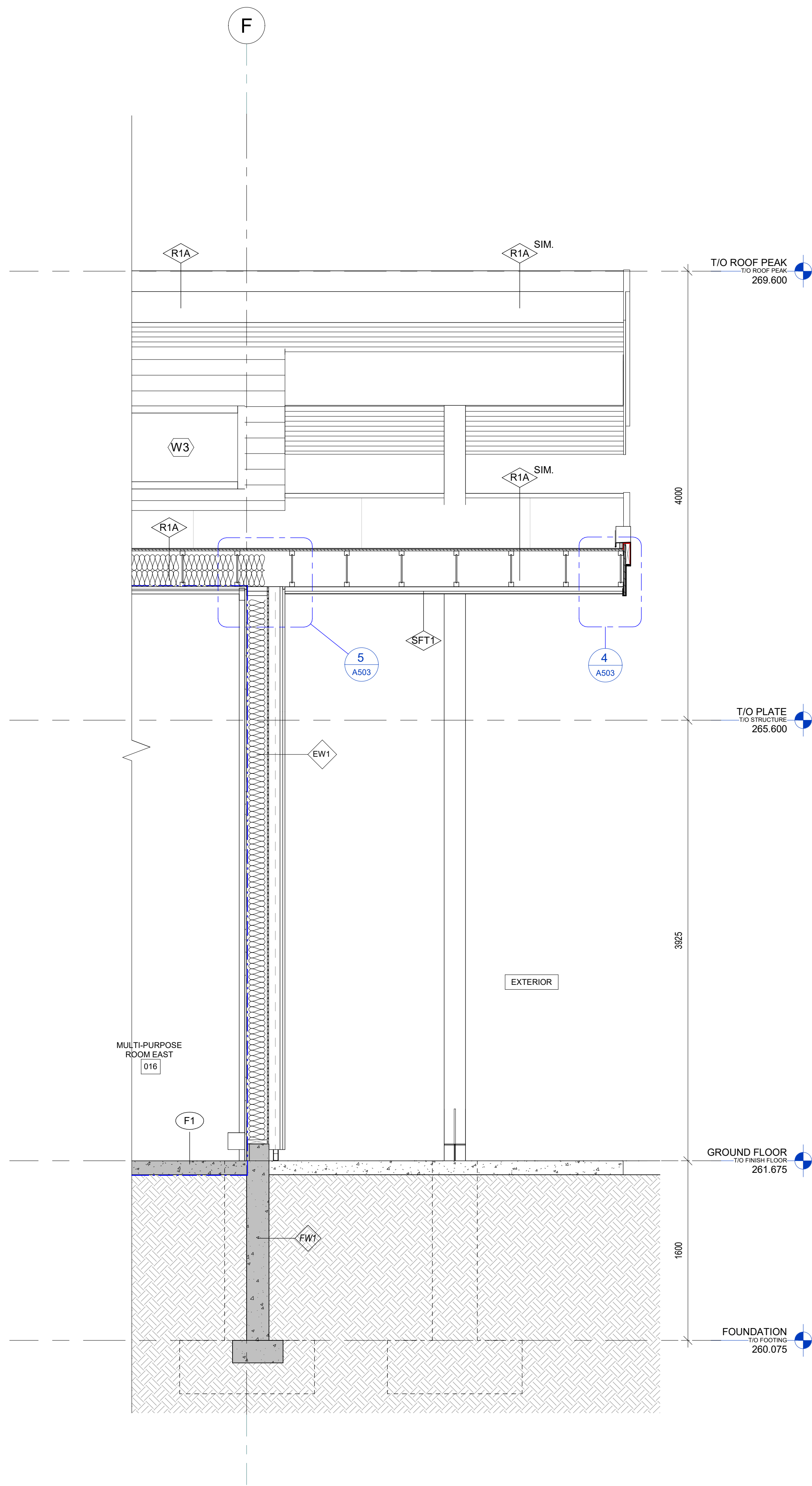


PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

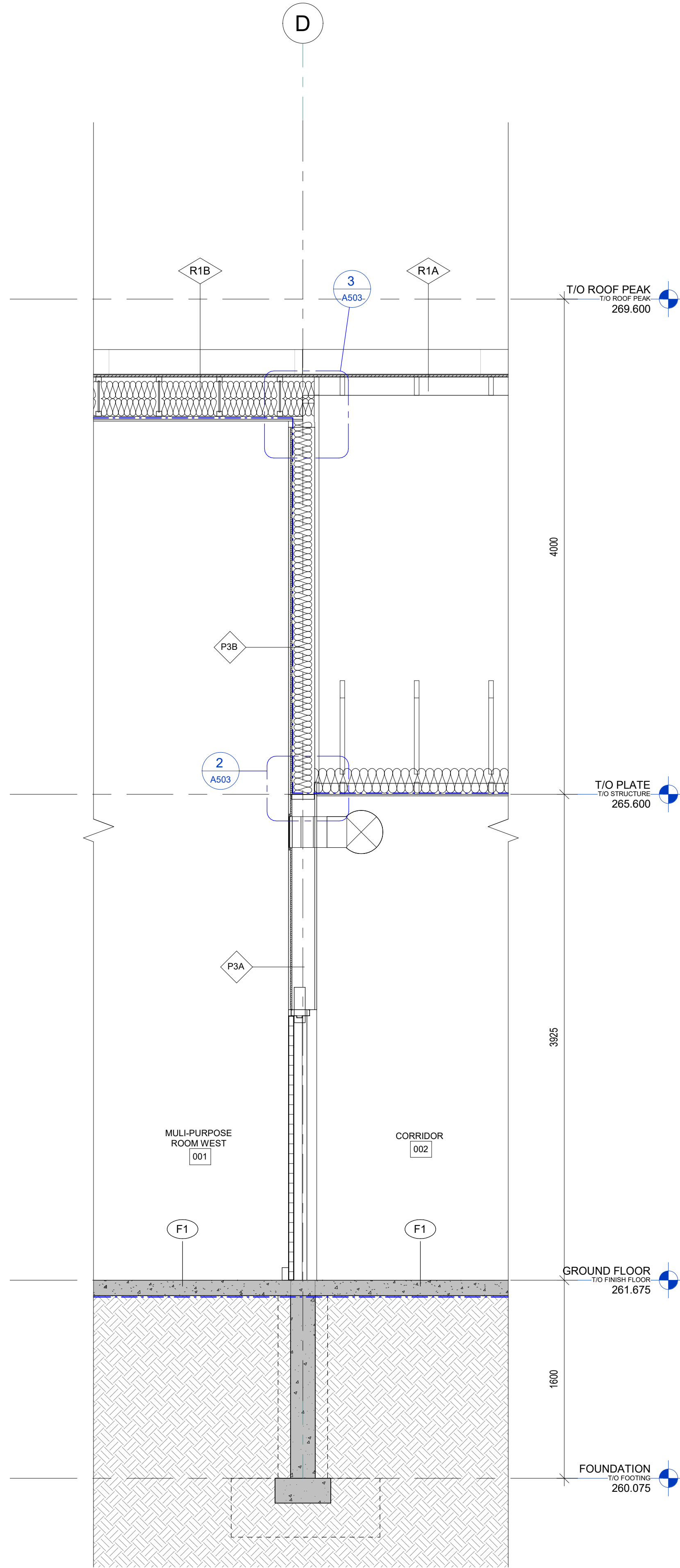
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BUILDING SECTIONS

DISCIPLINE: ARCHITECTURE	
DRAWER: M.M.	SCALE: AS NOTED
DESIGNER: C2/CIMA	DATE: 2026-07-30
APPROVER: W.H.	CHECKER: S.A.
PROJECT No.: Z0029853	DRAWING No.: A301
SHEET No.: 10 of 20	

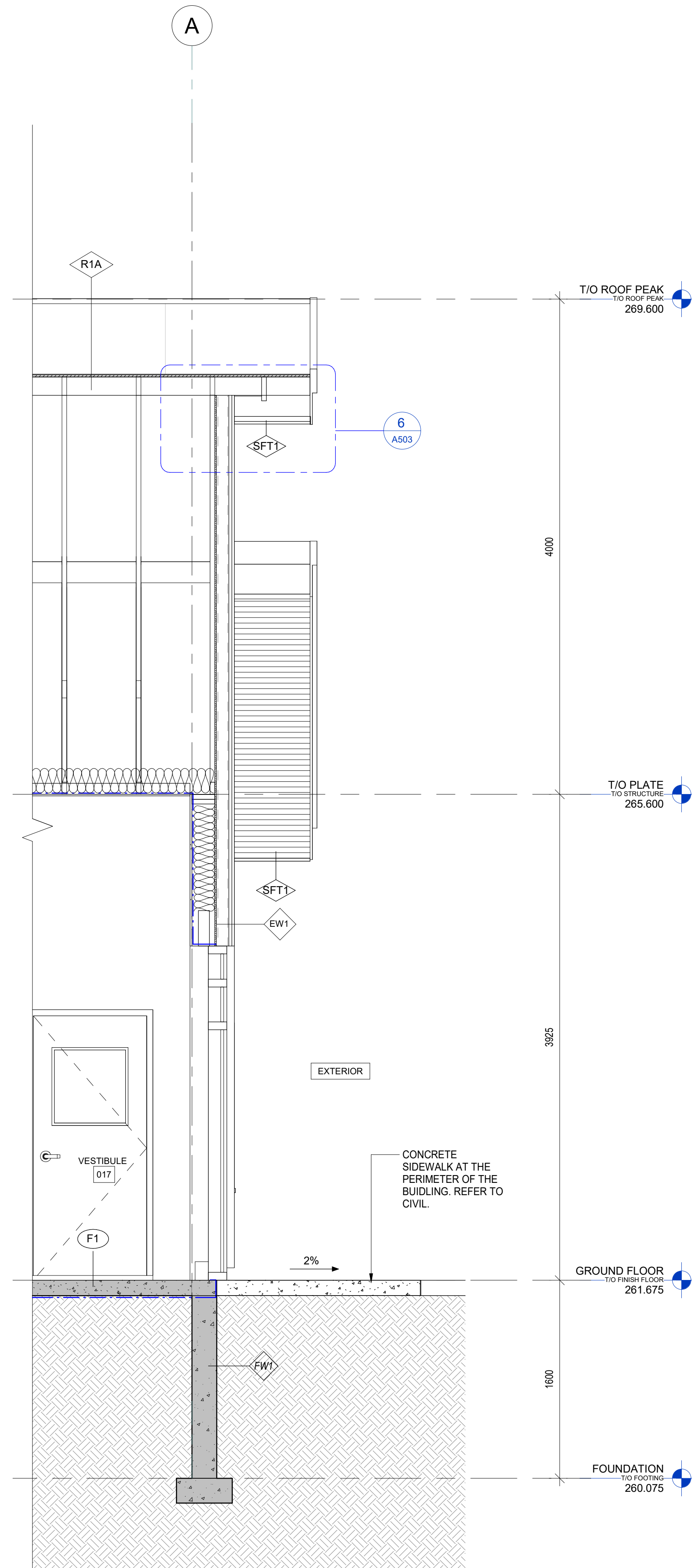
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3 Wall - Roof Overhang at Grid E
A310 SCALE: 1 : 25



2 Wall Section - Ceiling Transition
A310 SCALE: 1 : 25



1 Wall - Exterior Wall at Grid A
A310 SCALE: 1 : 25

No.	Date	Description	W.H.	By
0	2026-07-30	ISSUED FOR TENDER		

STAMP:

ONTARIO ASSOCIATION
OF
ARCHITECTS
2607/30
William G. Harispuru
LICENCE
8752

ARCHITECT:
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905.697.4464

CLIENT:
Ganaraska CONSERVATION

PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
WALL SECTIONS

DISCIPLINE:
ARCHITECTURE

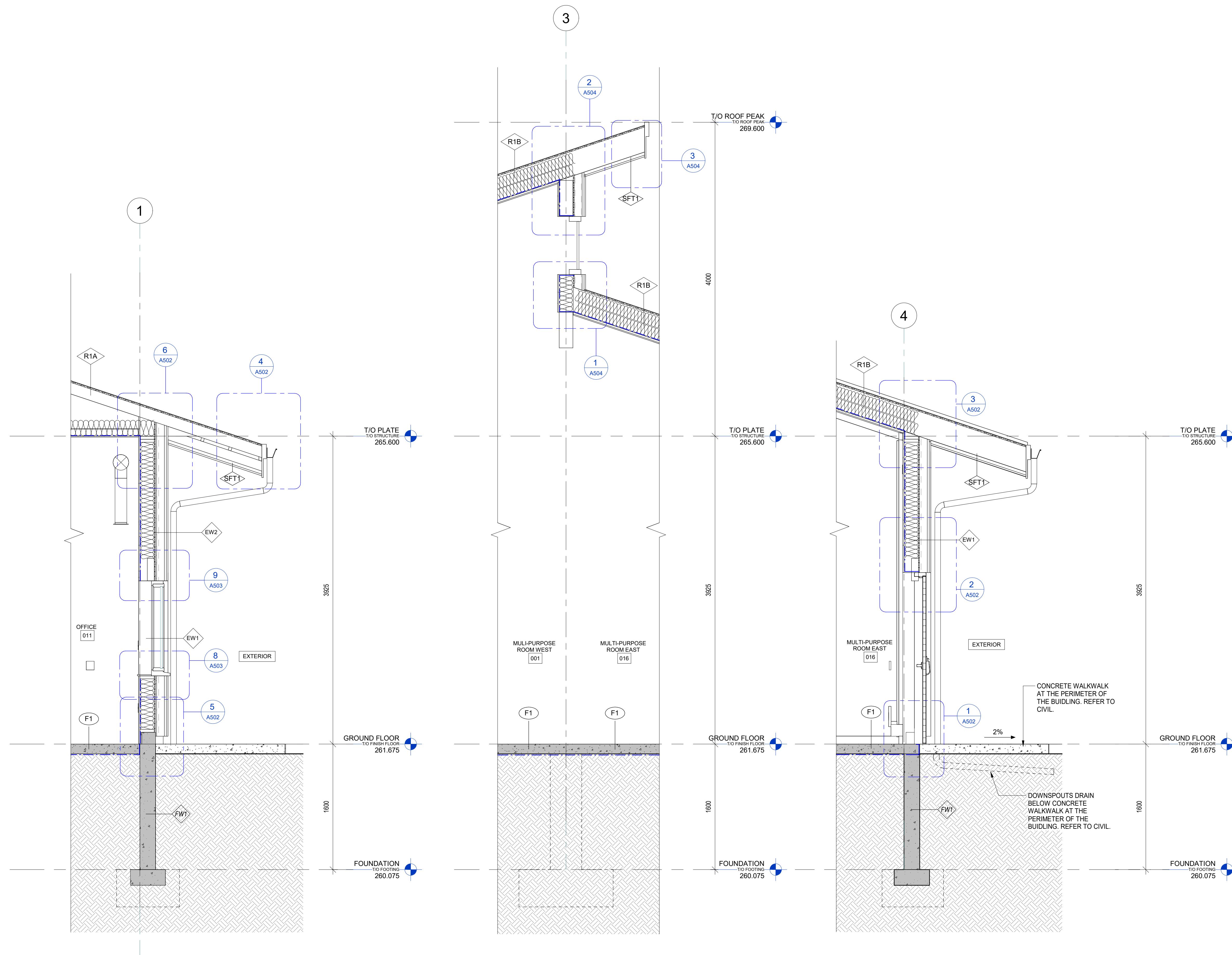
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M.M.	AS NOTED

DESIGNER:	DATE:
C2/CIMA	2026-07-30

APPROVER:	CHECKER:
W.H.	S.A.

PROJECT No.	DRAWING No.
Z0029853	A310

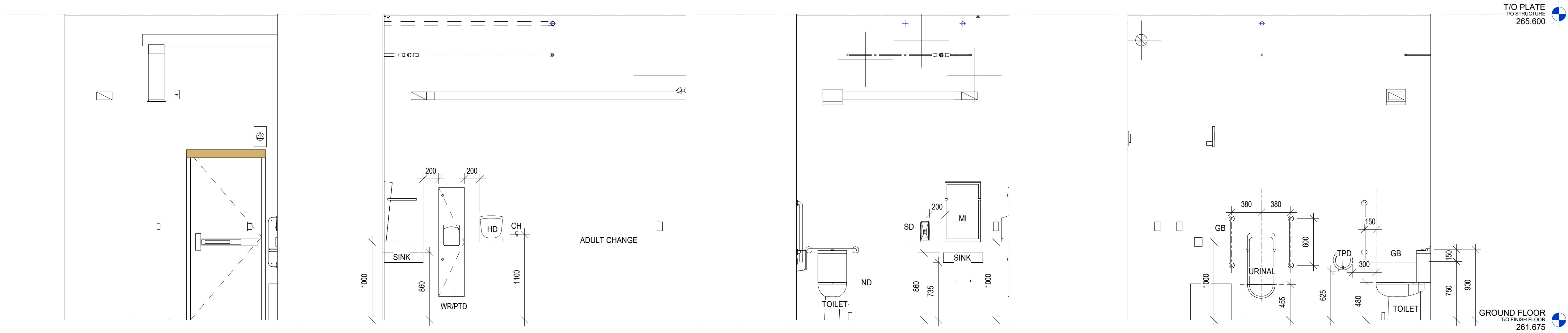
11 of 20



1 Wall Section - Roof Overhang @ Grid 4
A311 SCALE: 1 : 25

DRAFTER:	MM	SCALE:	AS NOTED
DESIGNER:	C2/CIMA	DATE:	2026-07-30
APPROVER:	WH	CHECKER:	SA
PROJECT No:	Z0029853	DRAWING No:	A311
SHEET No:	12 of 20		

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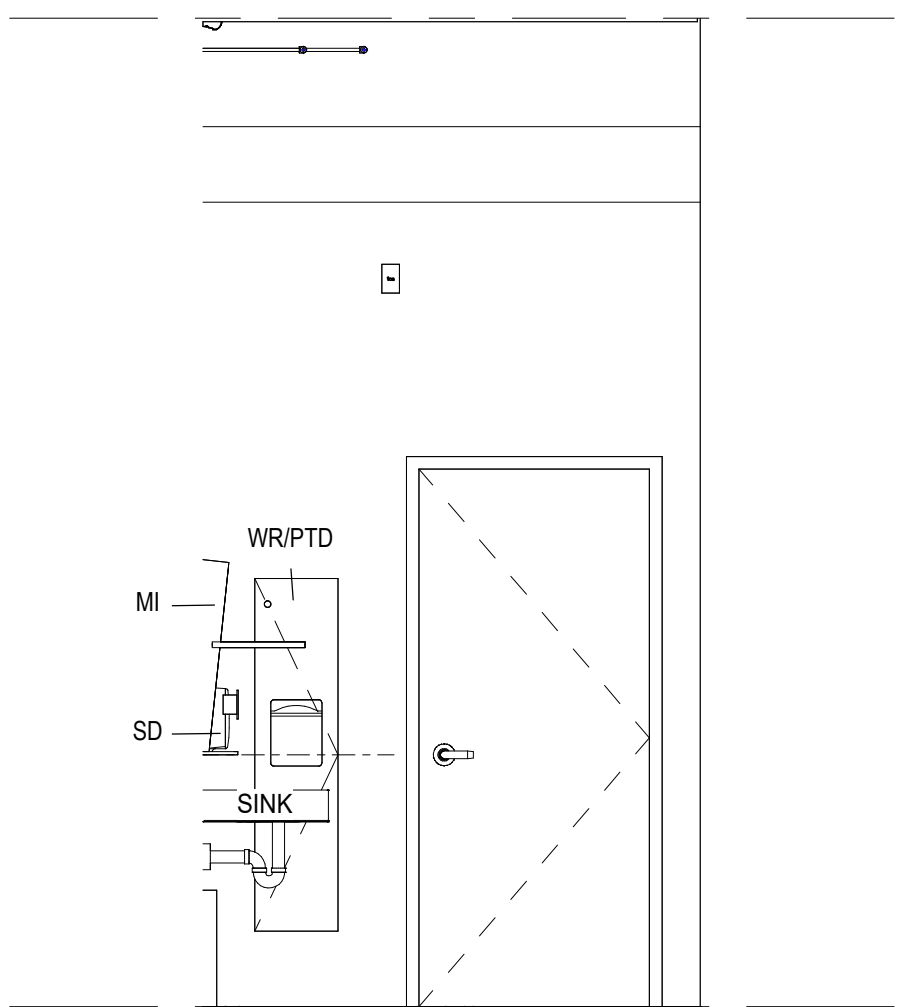


6 UNIVERSAL WASHROOM ELEV. - D
A401 SCALE: 1 : 30

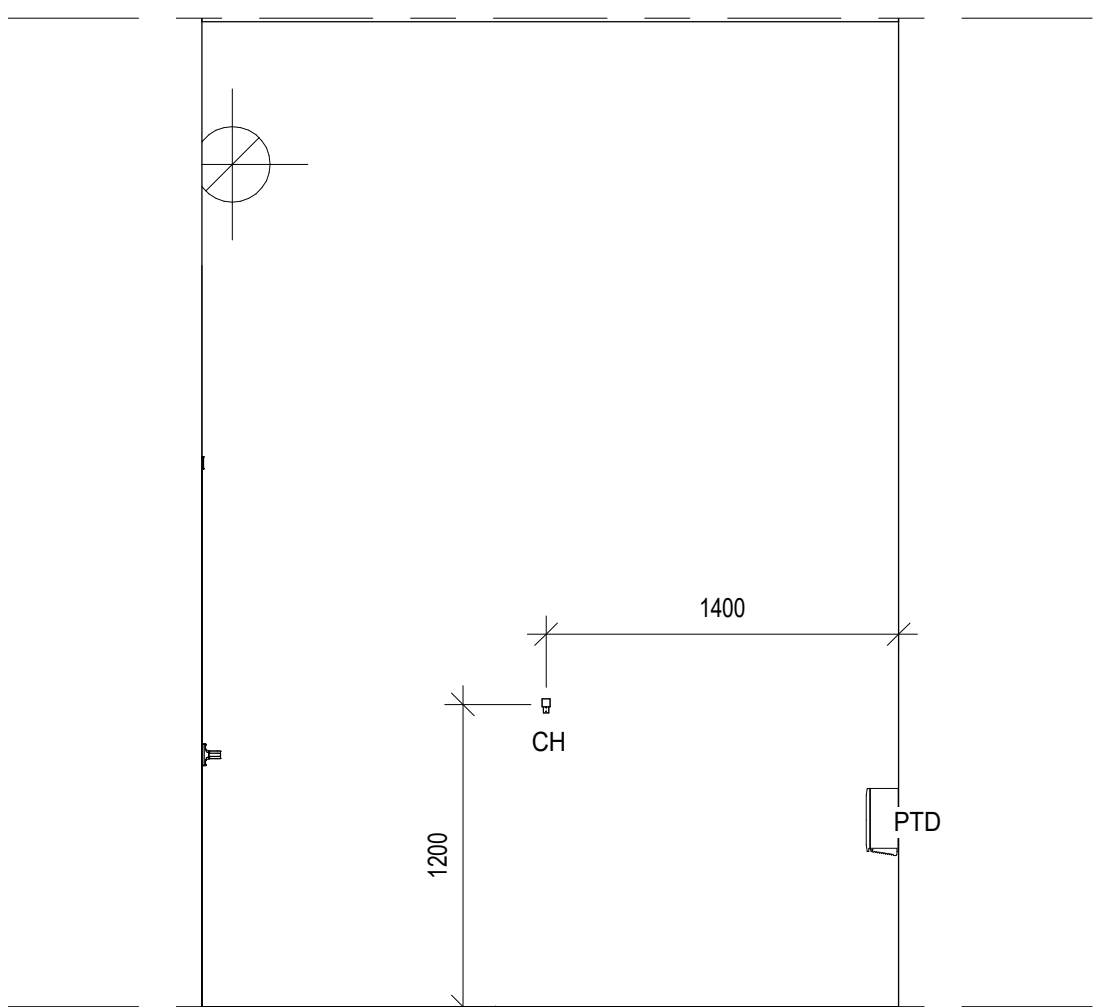
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A401 SCALE: 1 : 30

4 UNIVERSAL WASHROOM ELEV. - B
A401 SCALE: 1 : 30

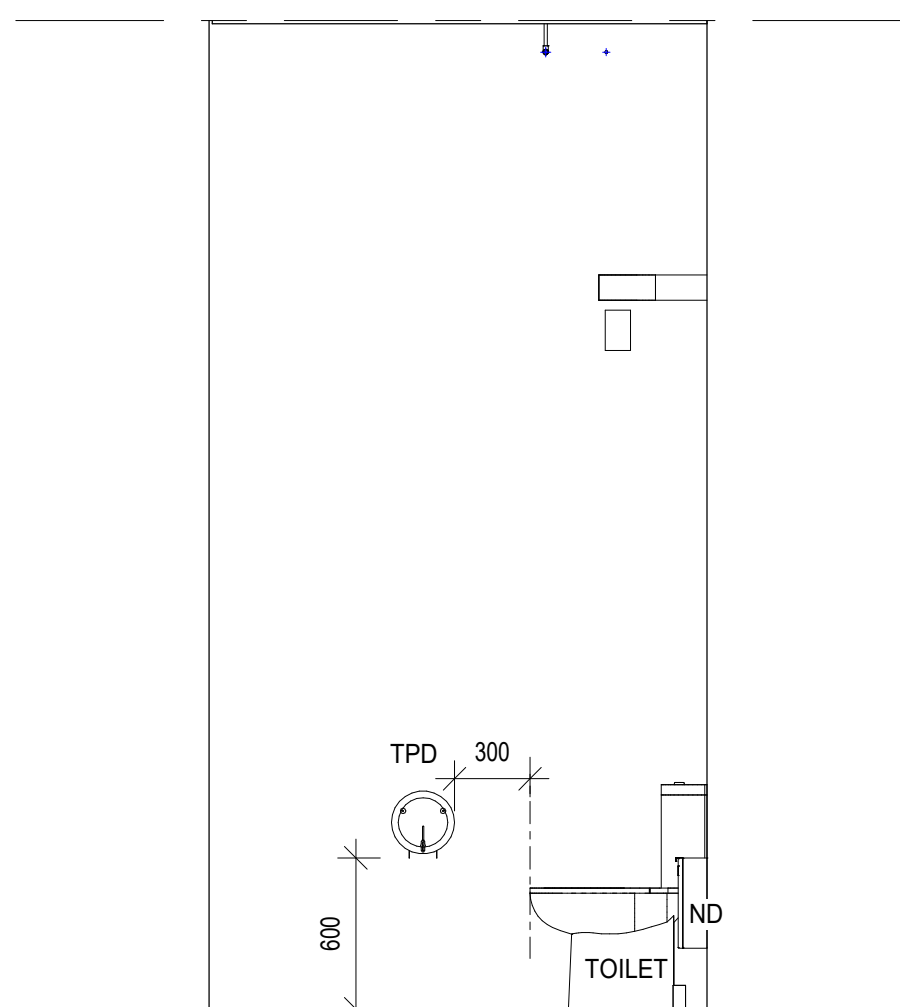
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A401 SCALE: 1 : 30



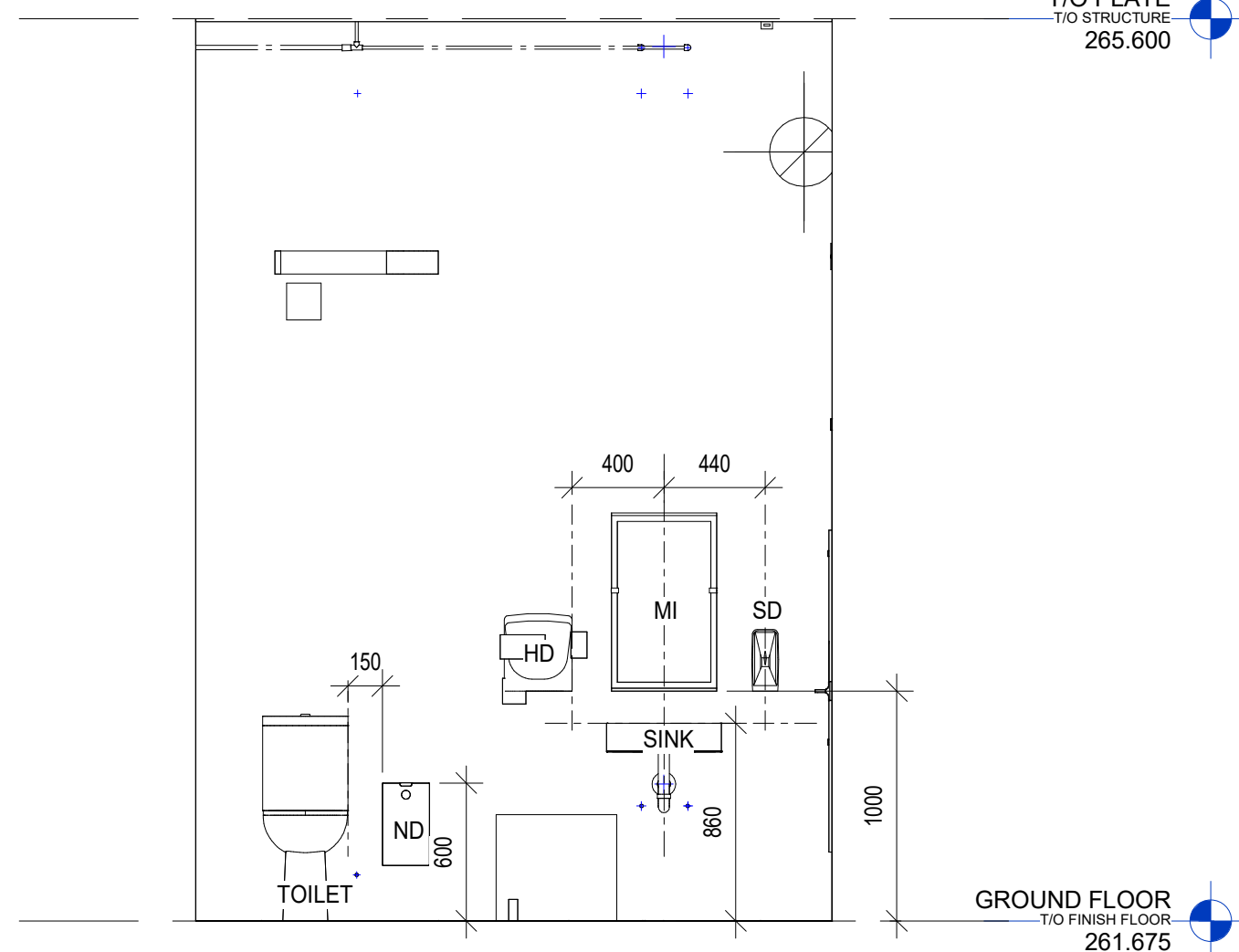
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A401 SCALE: 1 : 30



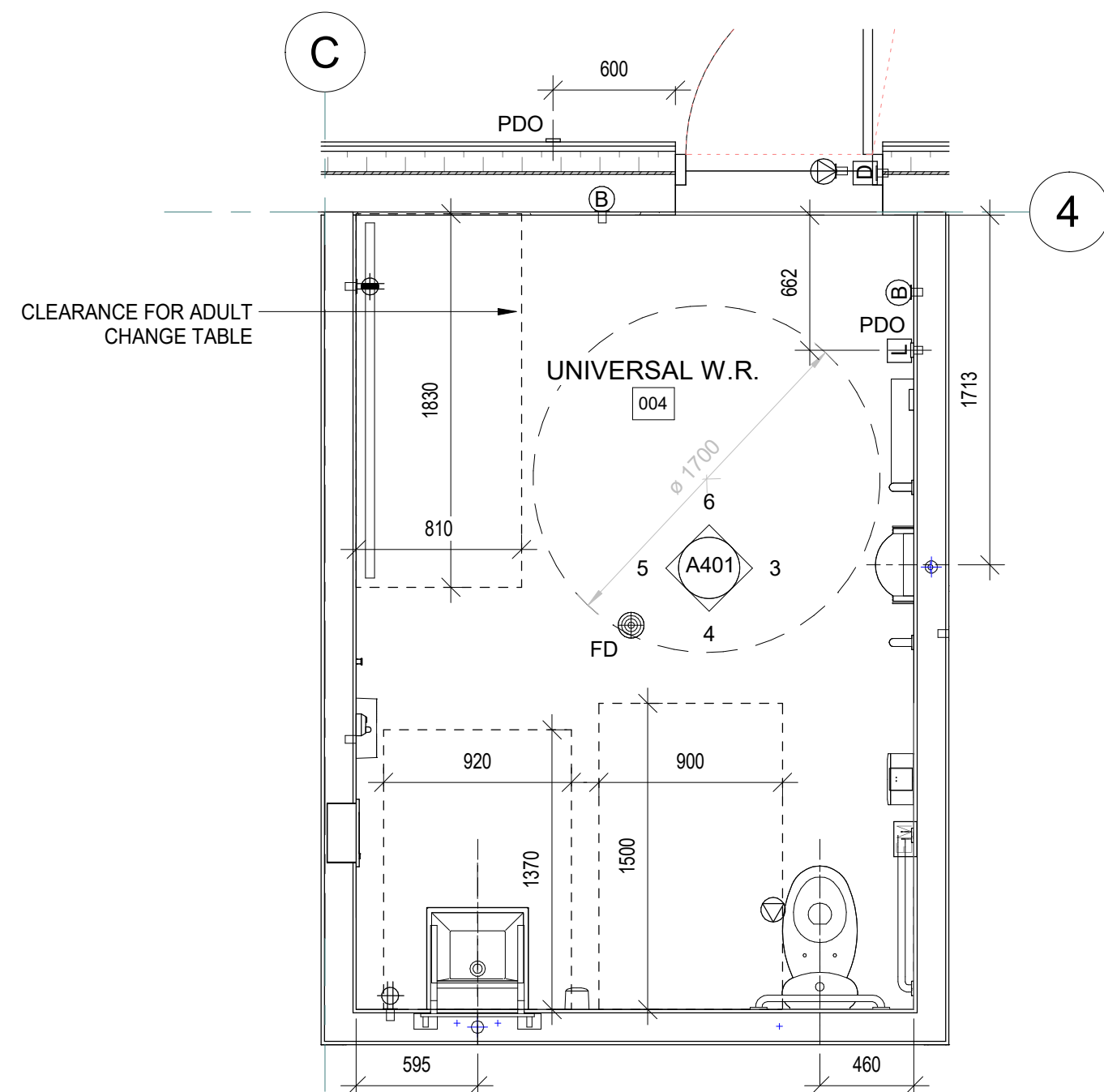
8 TYP. WASHROOM ELEV. - C
A401 SCALE: 1 : 30



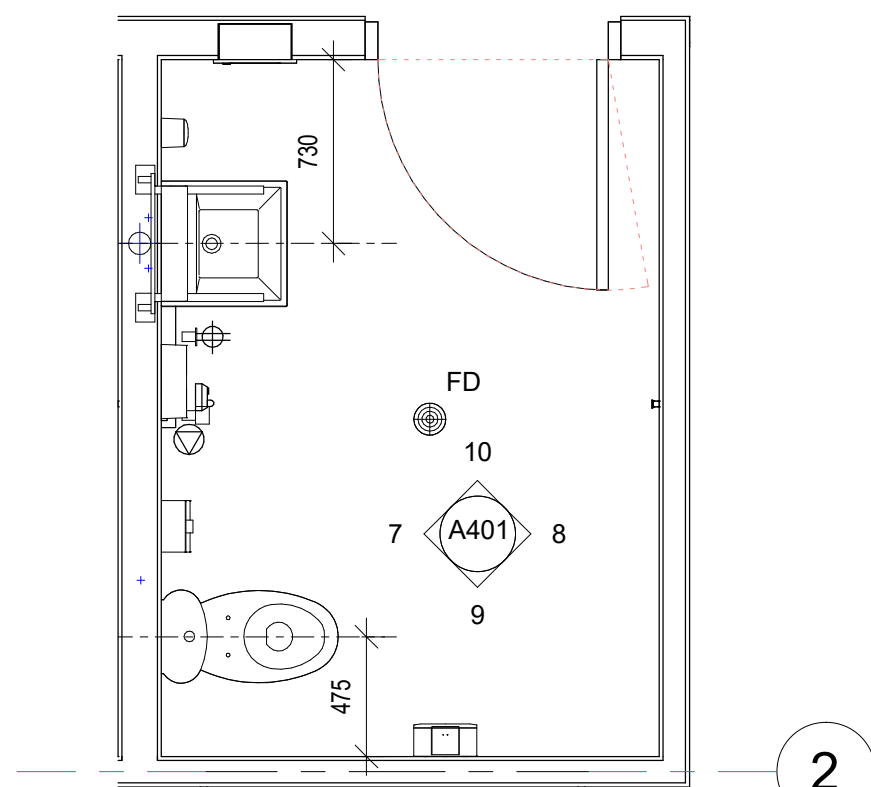
9 TYP. WASHROOM ELEV. - B
A401 SCALE: 1 : 30



7 TYP. WASHROOM ELEV. - A
A401 SCALE: 1 : 30



2 ENLARGED PLAN - W.R. UNIVERSAL
A401 SCALE: 1 : 30



1 ENLARGED PLAN - W.R. TYPICAL
A401 SCALE: 1 : 30

GENERAL NOTES - WASHROOMS

1. WASHROOM ACCESSORIES ARE NOT IN CONTRACT AND ARE TO BE SUPPLIED BY THE OWNER.

ABBREVIATIONS - WASHROOMS

HD	HAND DRIER
MI	MIRROR
SD	SOAP DISPENSER
WR/PTD	COMBINED WASTE RECEPTACLE / PAPER TOWEL DISPENSER
ND	FEMININE NAPKIN DISPOSAL
CH	COAT HOOK
TPD	TOILET PAPER DISPENSER
GB	GRAB BAR



ARCHITECT:
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C2 Architecture Inc.
415 Baseline Road West
Bowmanville, ON L1C 5M2
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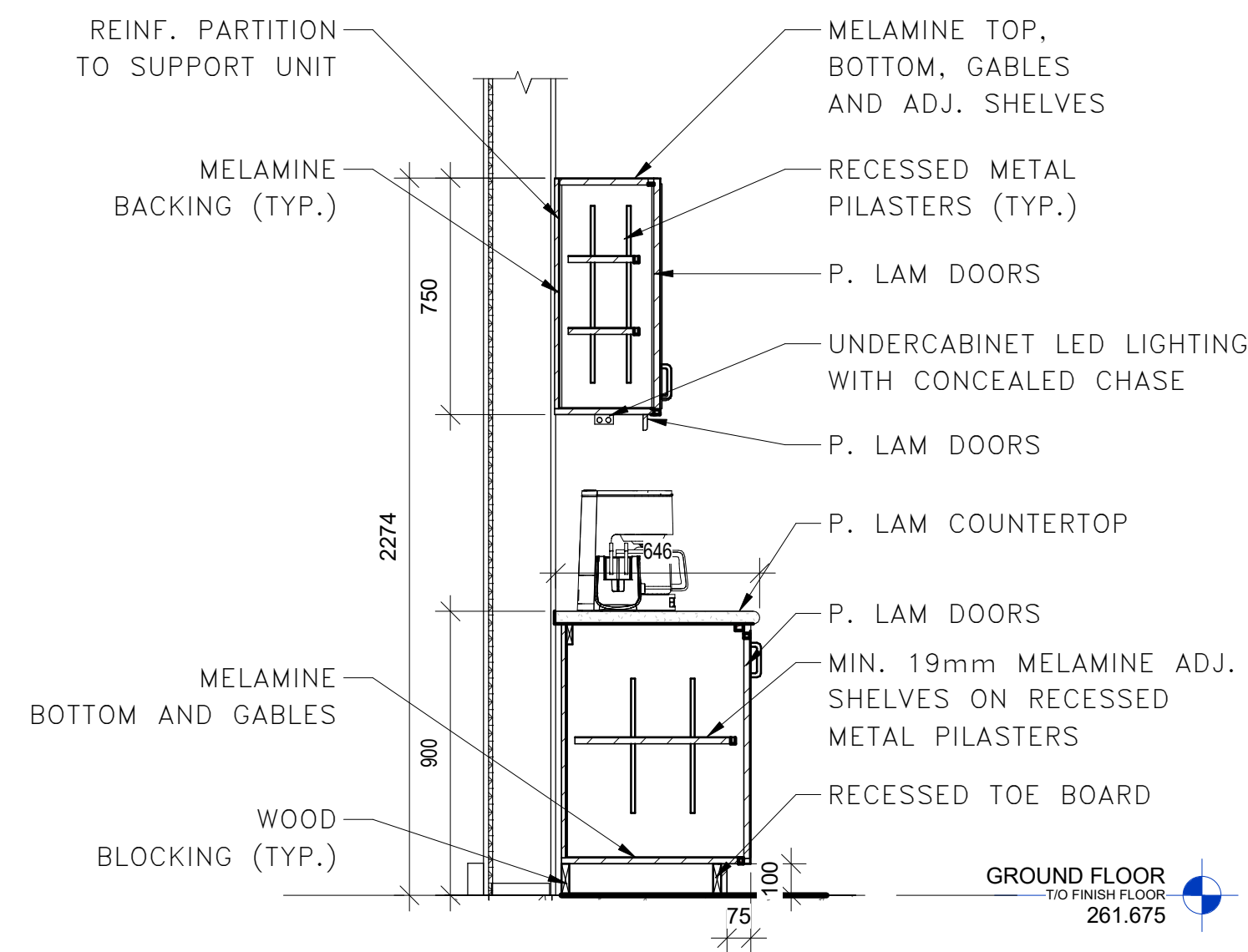
PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
WASHROOM ELEVATIONS & DETAILS

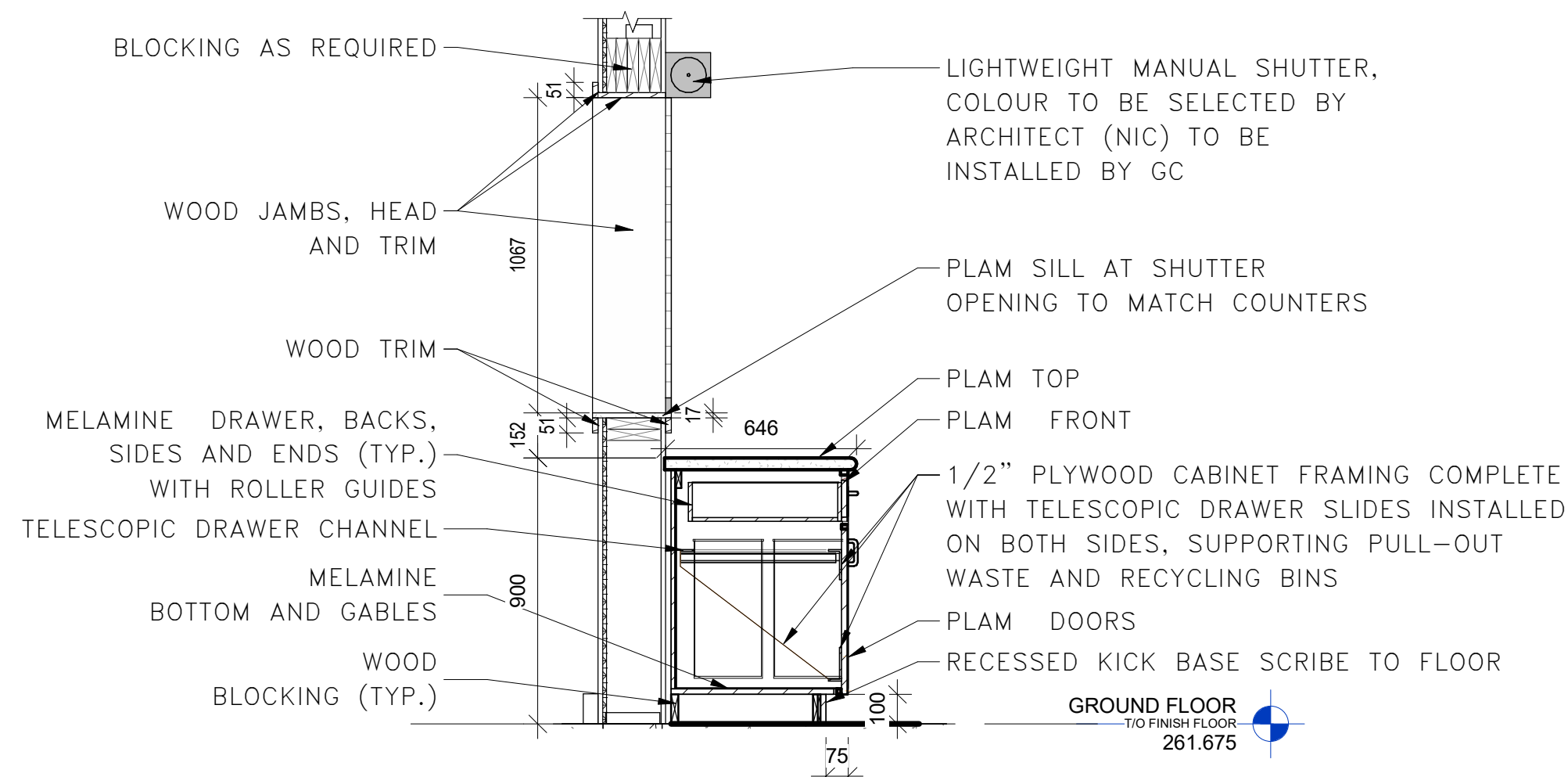
DISCIPLINE:
ARCHITECTURE

DRAFTER: M.M.	SCALE: AS NOTED
DESIGNER: M.M.	DATE: 2026-07-30
APPROVER: W.H.	CHECKER: S.A.
PROJECT No.: Z0029853	DRAWING No.: A401
SHEET No.: 13 of 20	

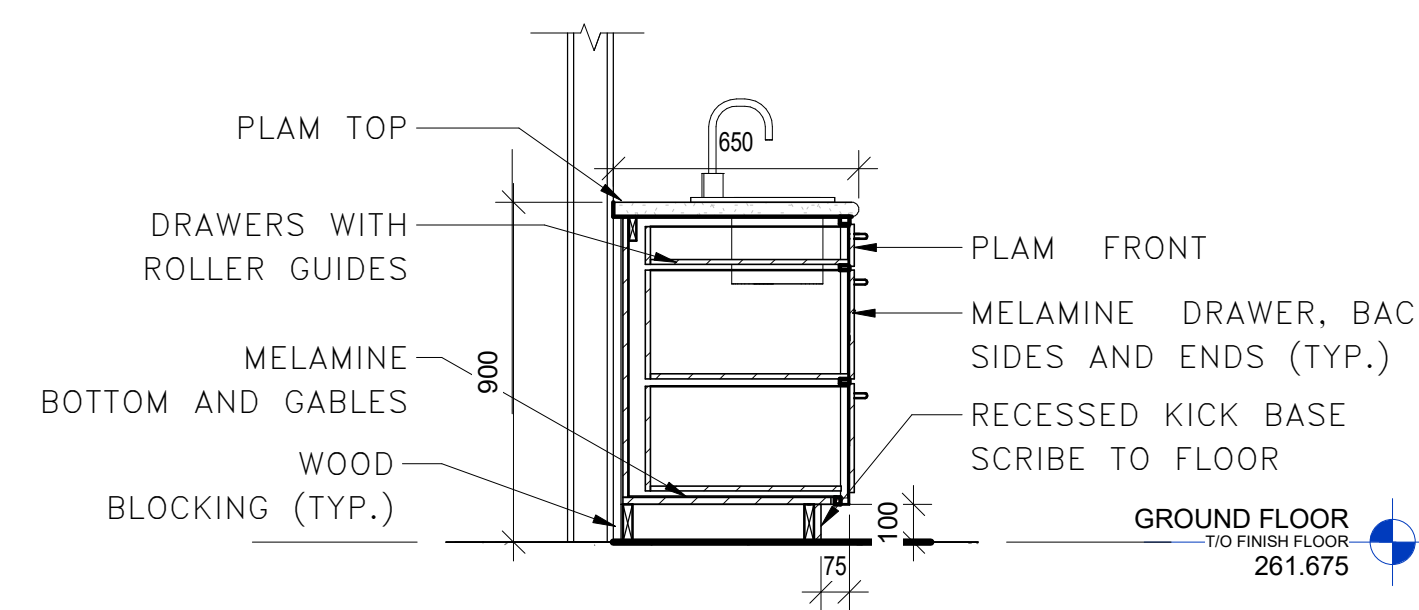
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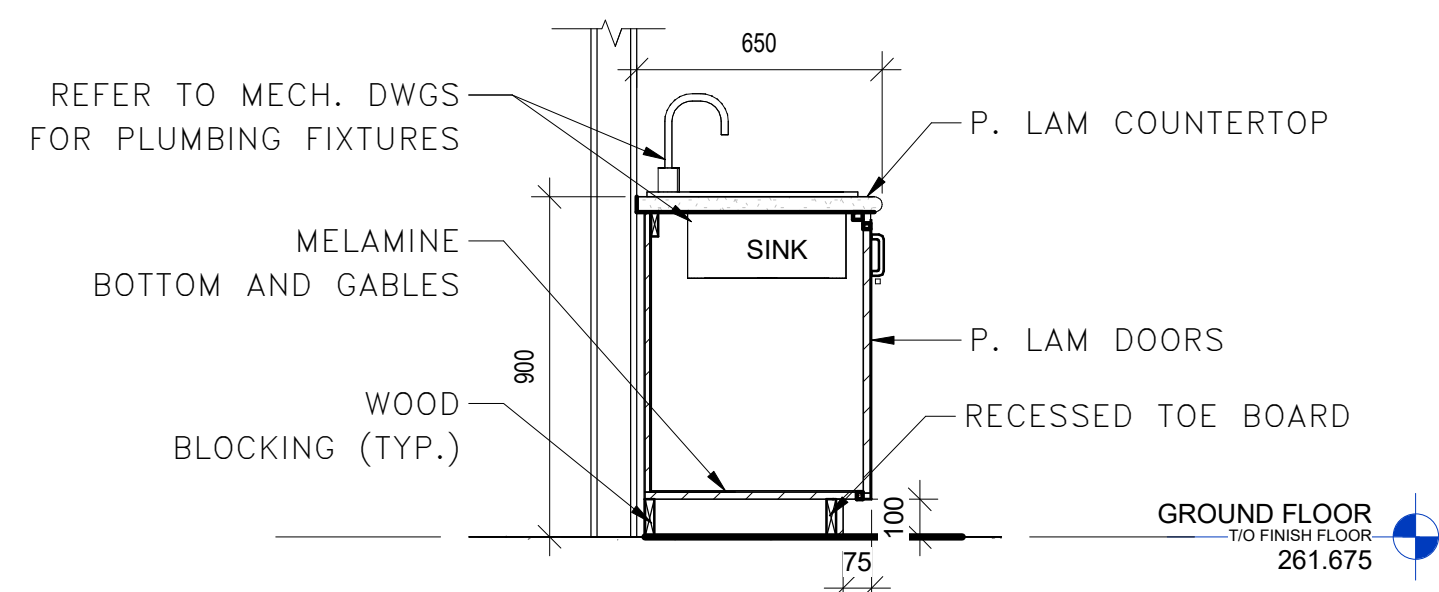
8 MW4 - BASE/UPPER CABINET - SHELVES
SCALE: 1 : 20



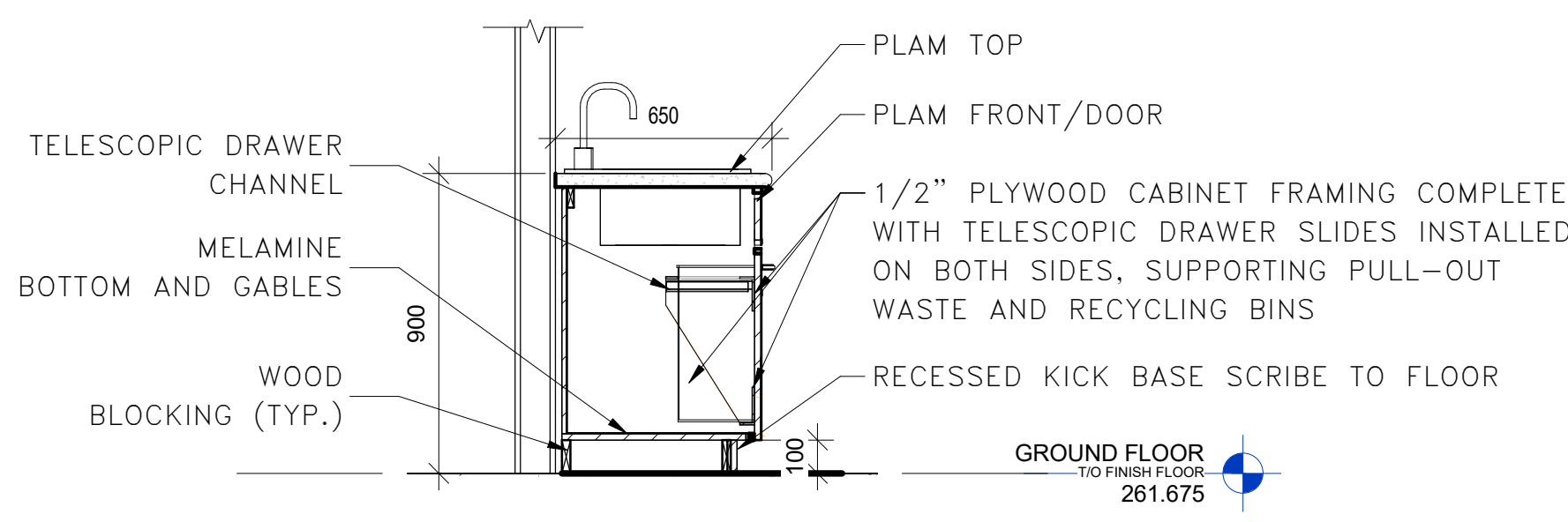
7 MW3 - RECYCLE/WASTE BIN SECTION
SCALE: 1 : 20



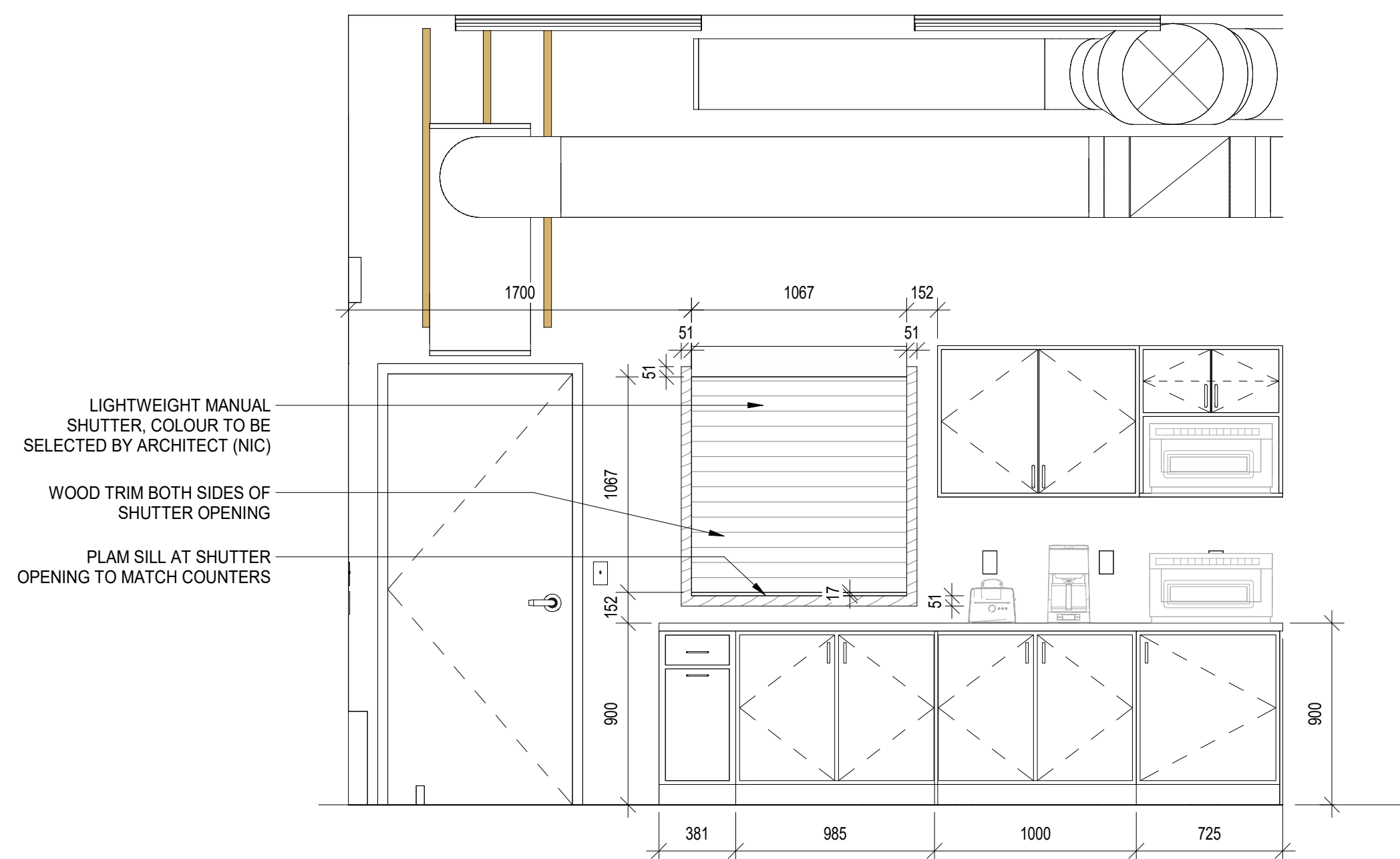
6 MW2 - BASE CABINET - DRAWERS
SCALE: 1 : 20



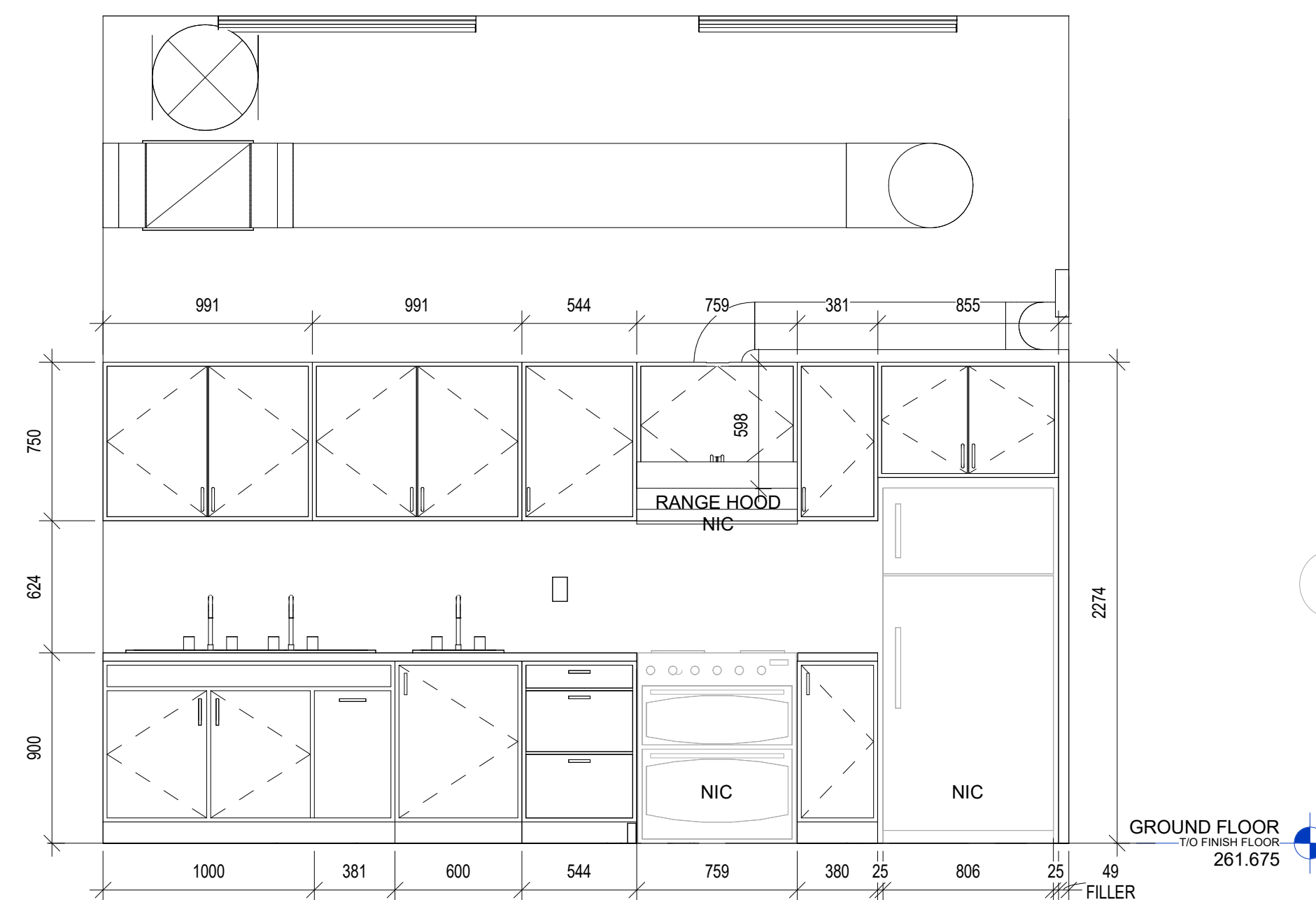
5 MW1b - BASE CABINET - SINK/STORAGE
SCALE: 1 : 20



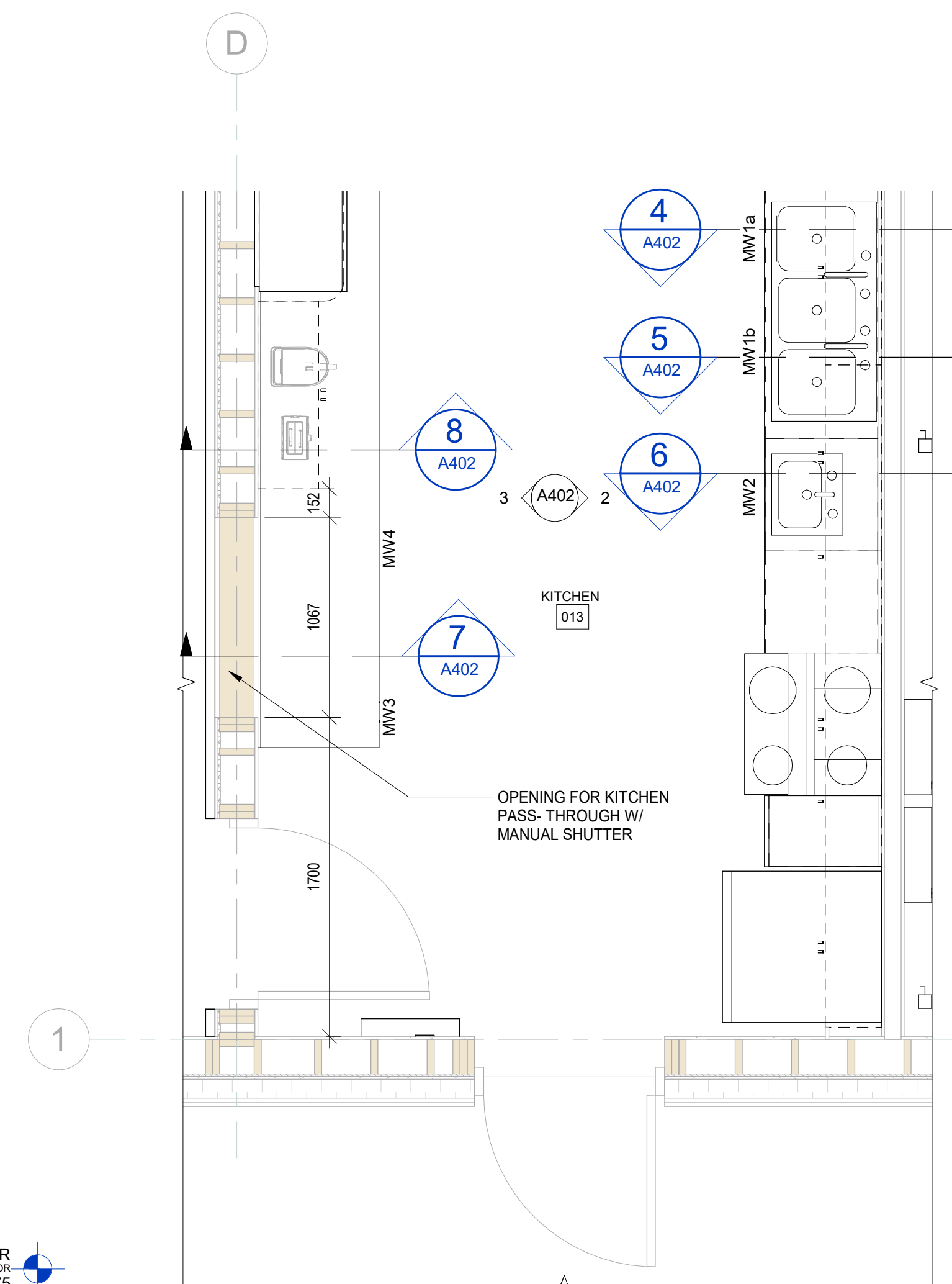
4 MW1a - BASE CABINET - SINK / ORGANIC BIN
SCALE: 1 : 20



3 KITCHEN WEST INTERIOR ELEVATION
A402 SCALE: 1 : 25

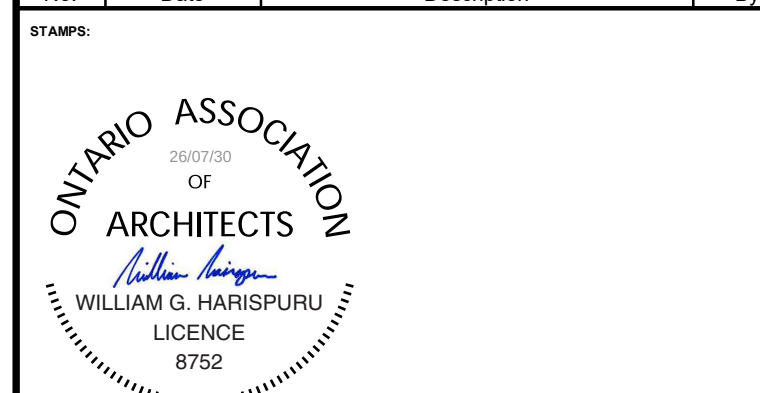


2 KITCHEN EAST INTERIOR ELEVATION
A402 SCALE: 1 : 25



1 KITCHEN ENLARGED FLOOR PLAN
A402 SCALE: 1 : 25

0	2026-07-30	ISSUED FOR TENDER	W.H.
No.	Date	Description	By



ARCHITECT:
C²Architecture
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415 Baseline Road West
Bowmanville, ON L1C 5M2
905.697.4464



PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

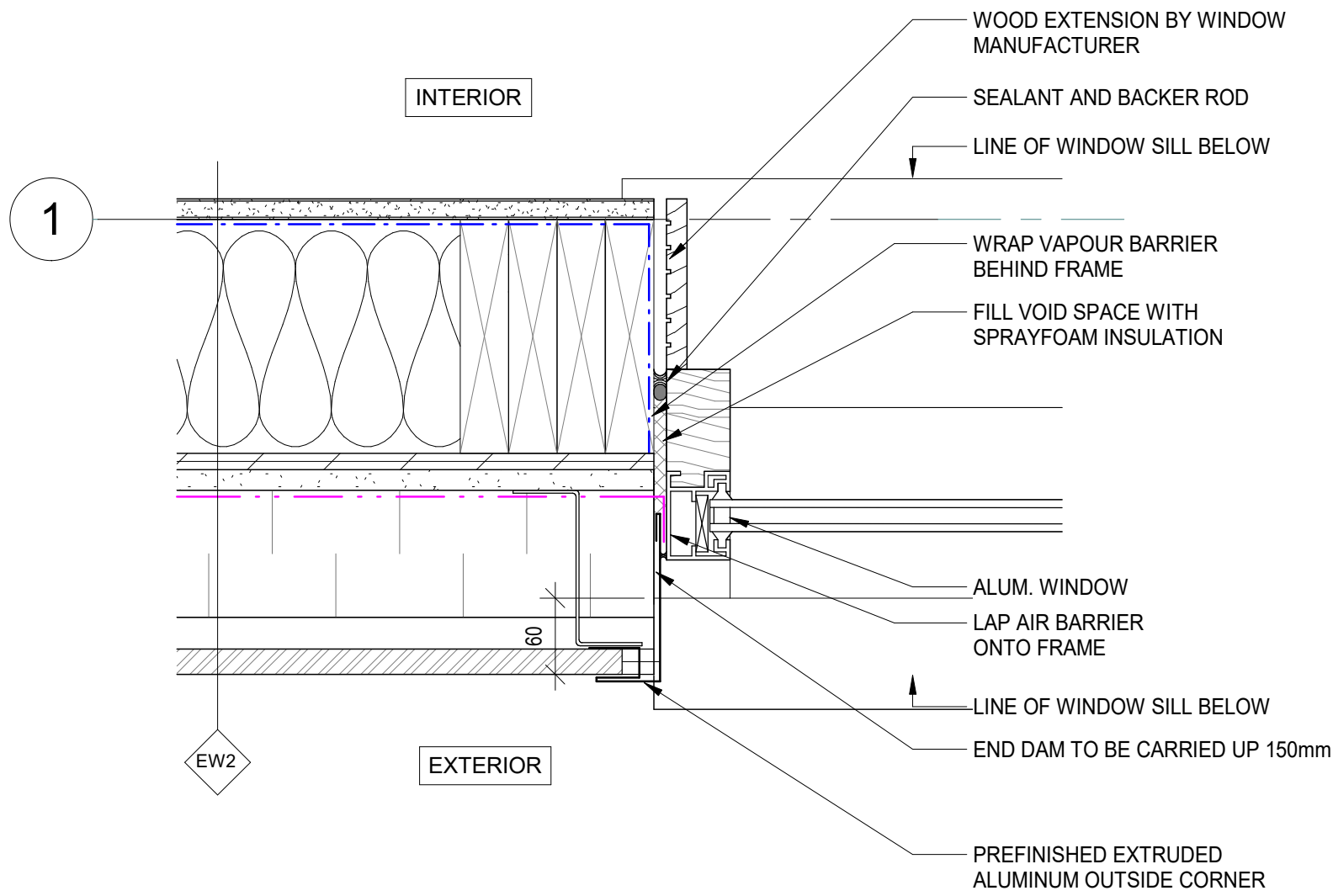
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MILLWORK ELEVATIONS AND TYPICAL DETAILS

DISCIPLINE:
ARCHITECTURE

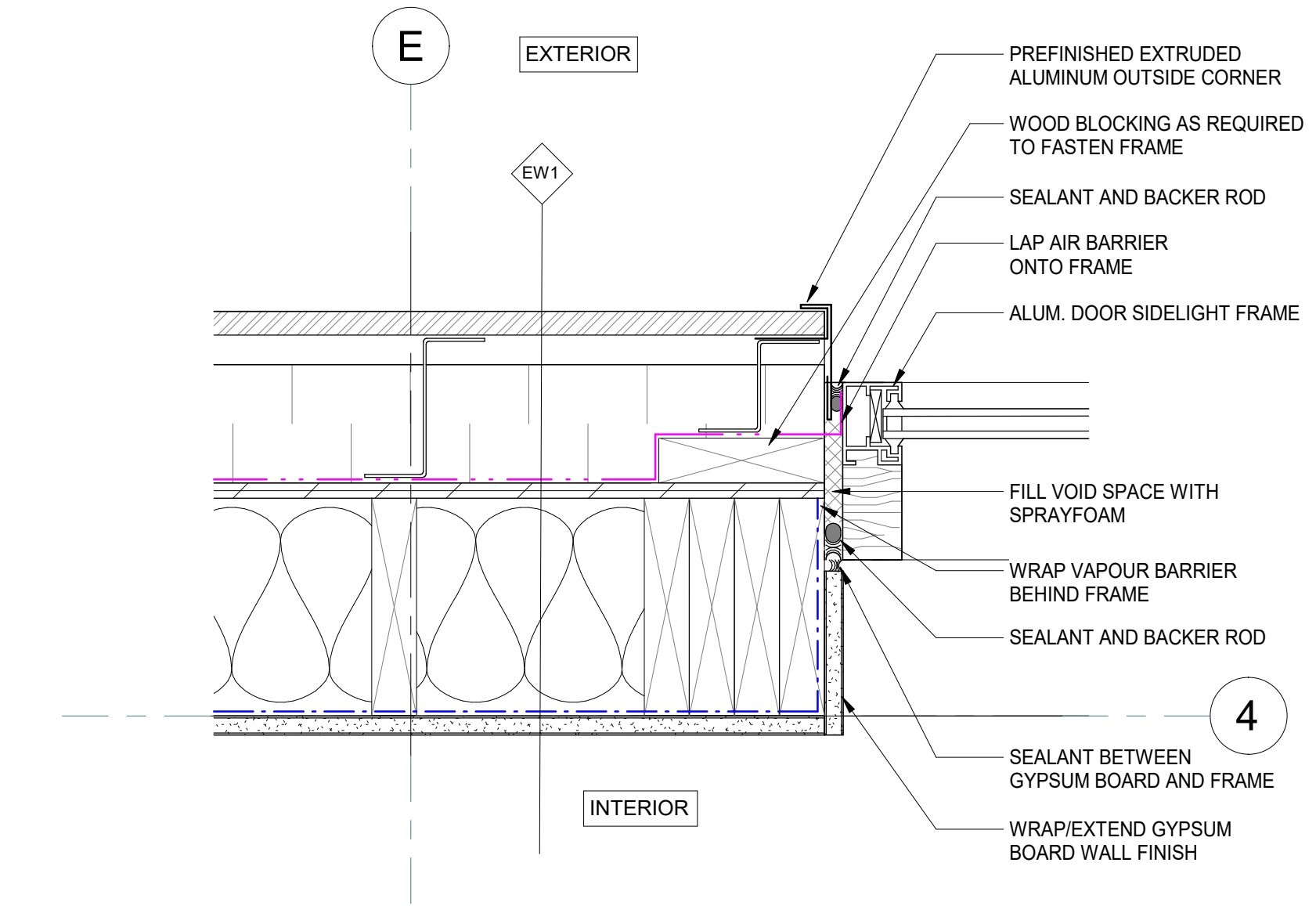
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DESIGNER: M.M.	DATE: 2026-07-30
APPROVER: W.H.	CHECKER: S.A.
PROJECT No.: Z0029853	DRAWING No.: A402
SHEET No.: 14 of 20	

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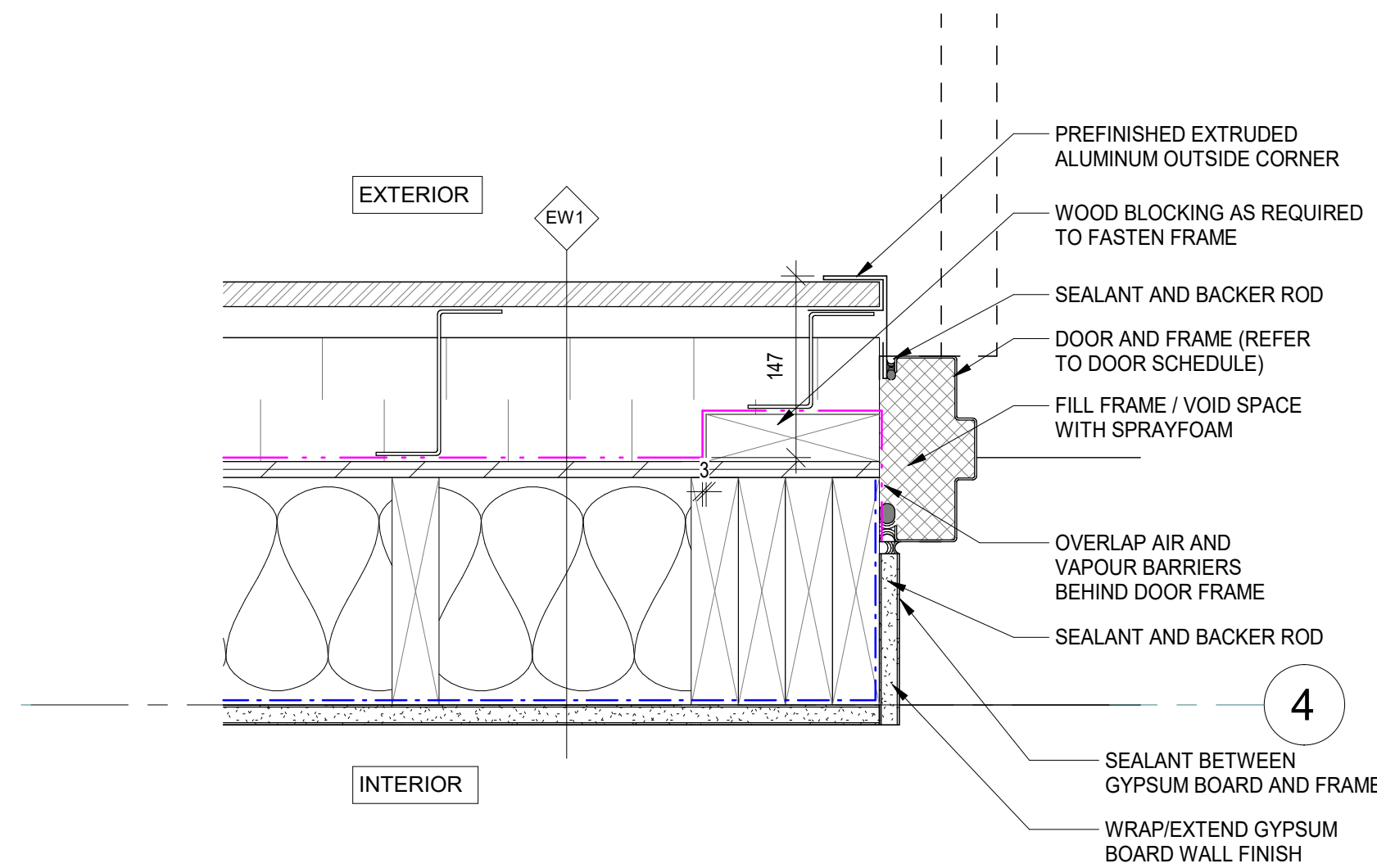
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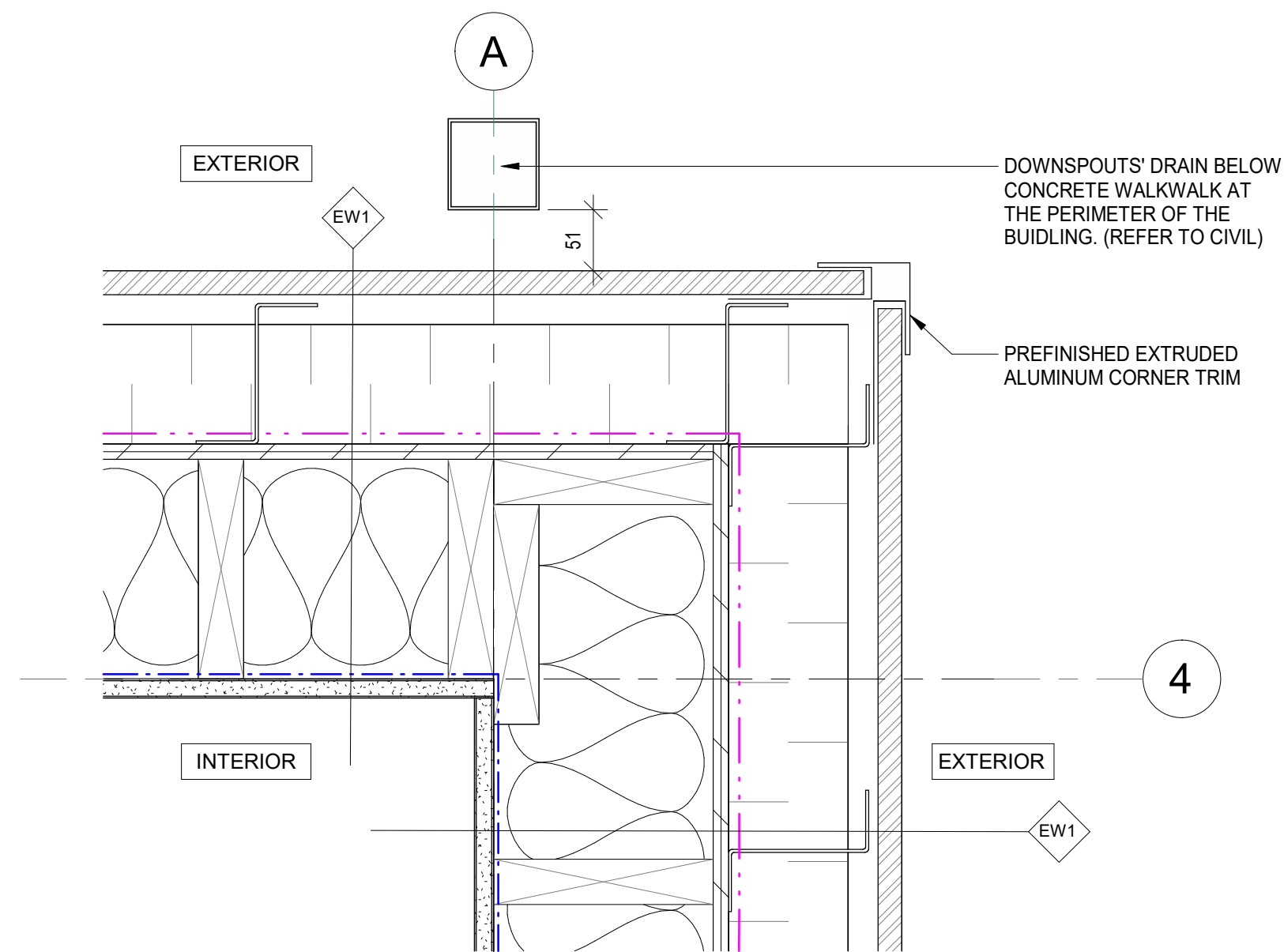
4 PLAN DETAIL - TYP. WINDOW JAMB
A501 SCALE: 1 : 5



3 PLAN DETAIL - TYP. EXT. ALUM. FRAME JAMB
A501 SCALE: 1 : 5



2 PLAN DETAIL - TYP. EXT. H.M. DOOR JAMB
A501 SCALE: 1 : 5



1 PLAN DETAIL - TYP. CORNER
A501 SCALE: 1 : 5



ARCHITECT:
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C2 Architecture Inc.
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Bowmanville, ON L1C 5M2
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PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
PLAN DETAILS

DISCIPLINE:
ARCHITECTURE

DRAFTER: MM	SCALE: AS NOTED
DESIGNER: C2/CIMA	DATE: 2026-07-30
APPROVER: WH	CHECKER: SA
PROJECT No.: Z0029853	DRAWING No.: A501
SHEET No.: 15 of 20	



ONTARIO ASSOCIATION
 26/07/30
 OF
 ARCHITECTS
William G. Harispuu
 WILLIAM G. HARISPUU
 LICENCE
 8752

ARCHITECT:

C² Architecture

C2 Architecture Inc.
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CLIENT:

The logo for Ganaraska Conservation features a stylized green pine tree on a green leaf-like shape, which is positioned above a blue wavy line representing water. The word "Ganaraska" is written in a large, bold, black sans-serif font, and the word "CONSERVATION" is written in a smaller, bold, black sans-serif font below it.

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

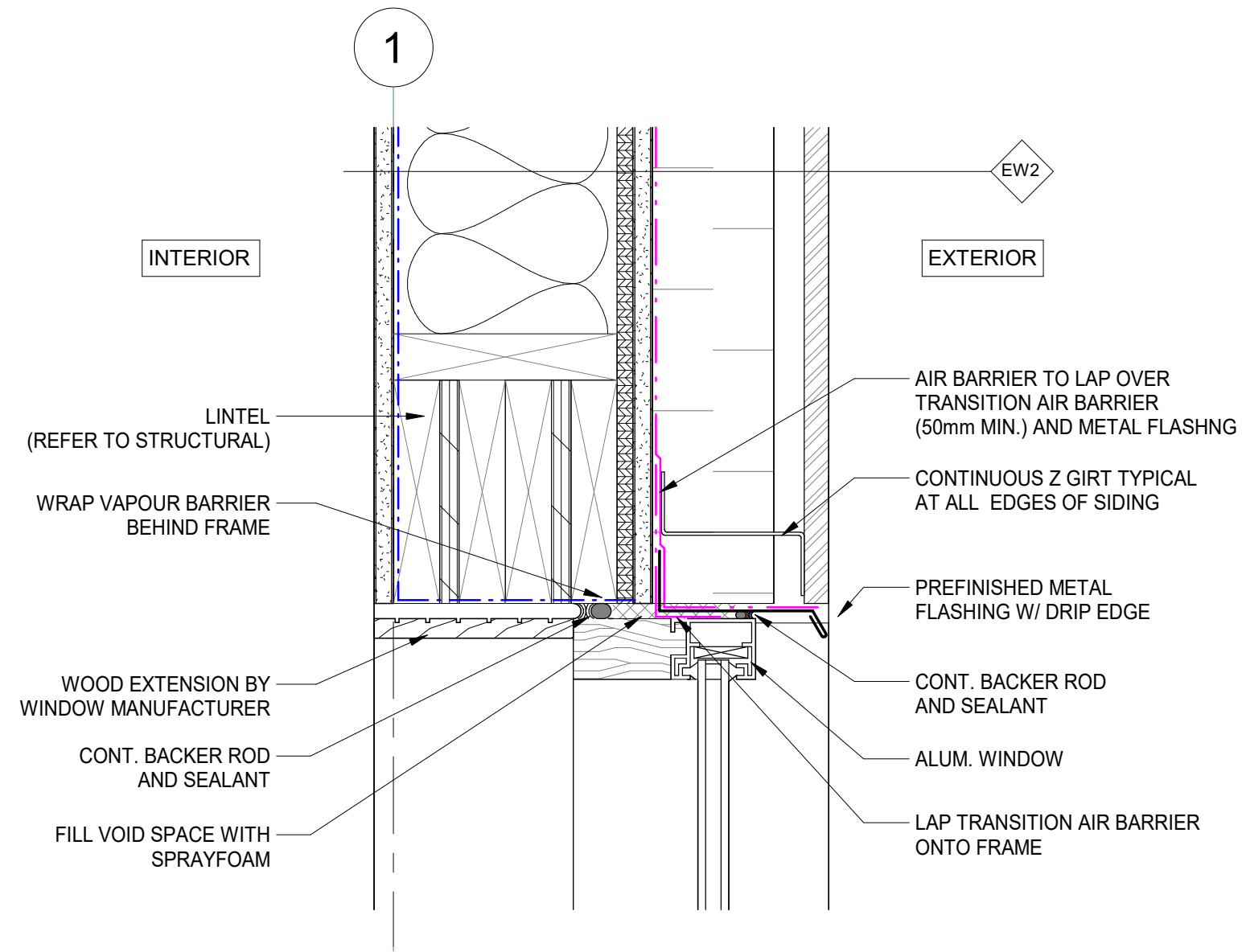
SECTION DETAILS

DISCIPLINE: ARCHITECTURE

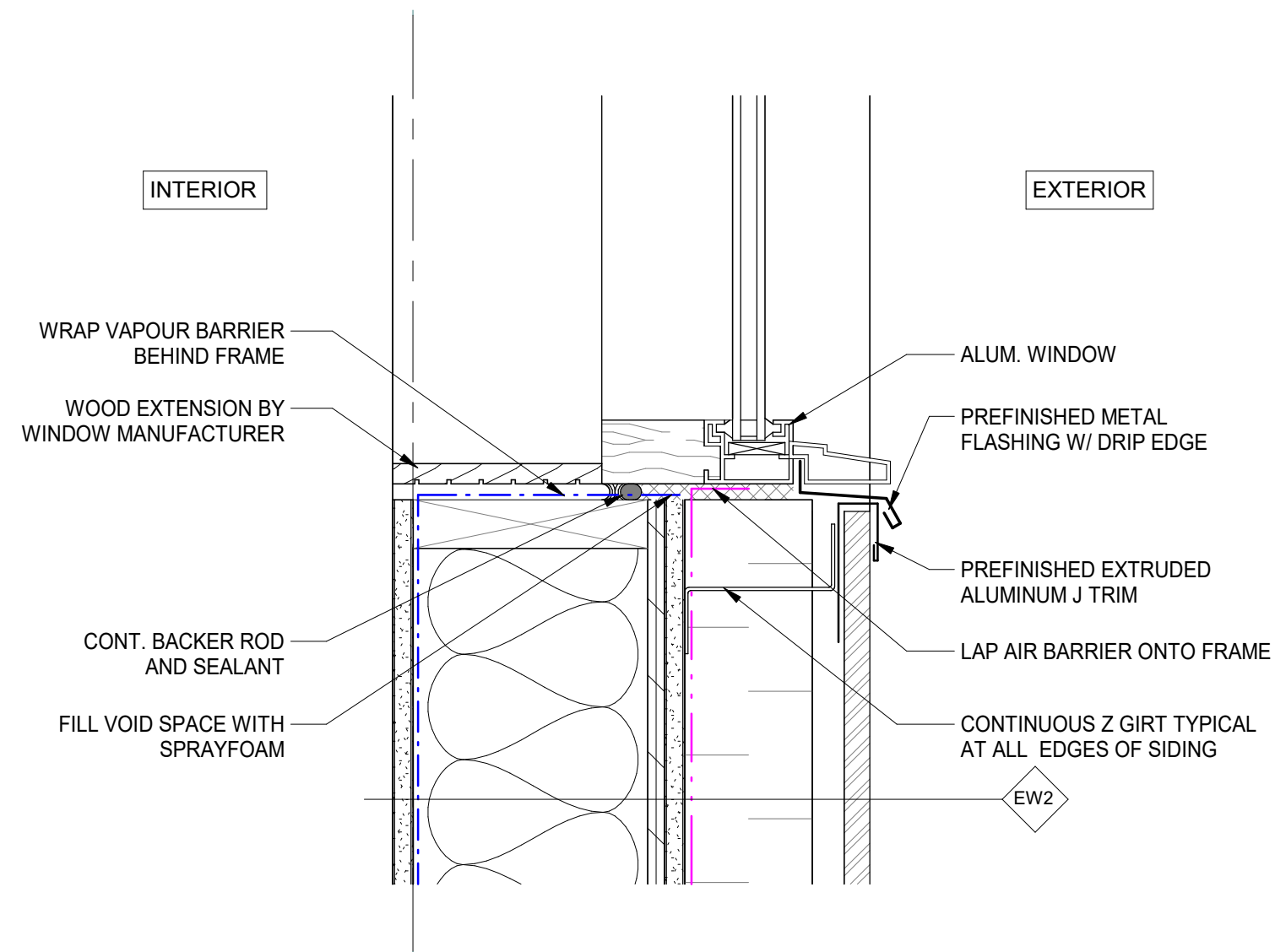
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DESIGNER:	C2/CIMA	DATE:	2026-07-30
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PROJECT NO:	Z0029853	DRAWING NO:	A502
SHEET NO:	16 of 20		

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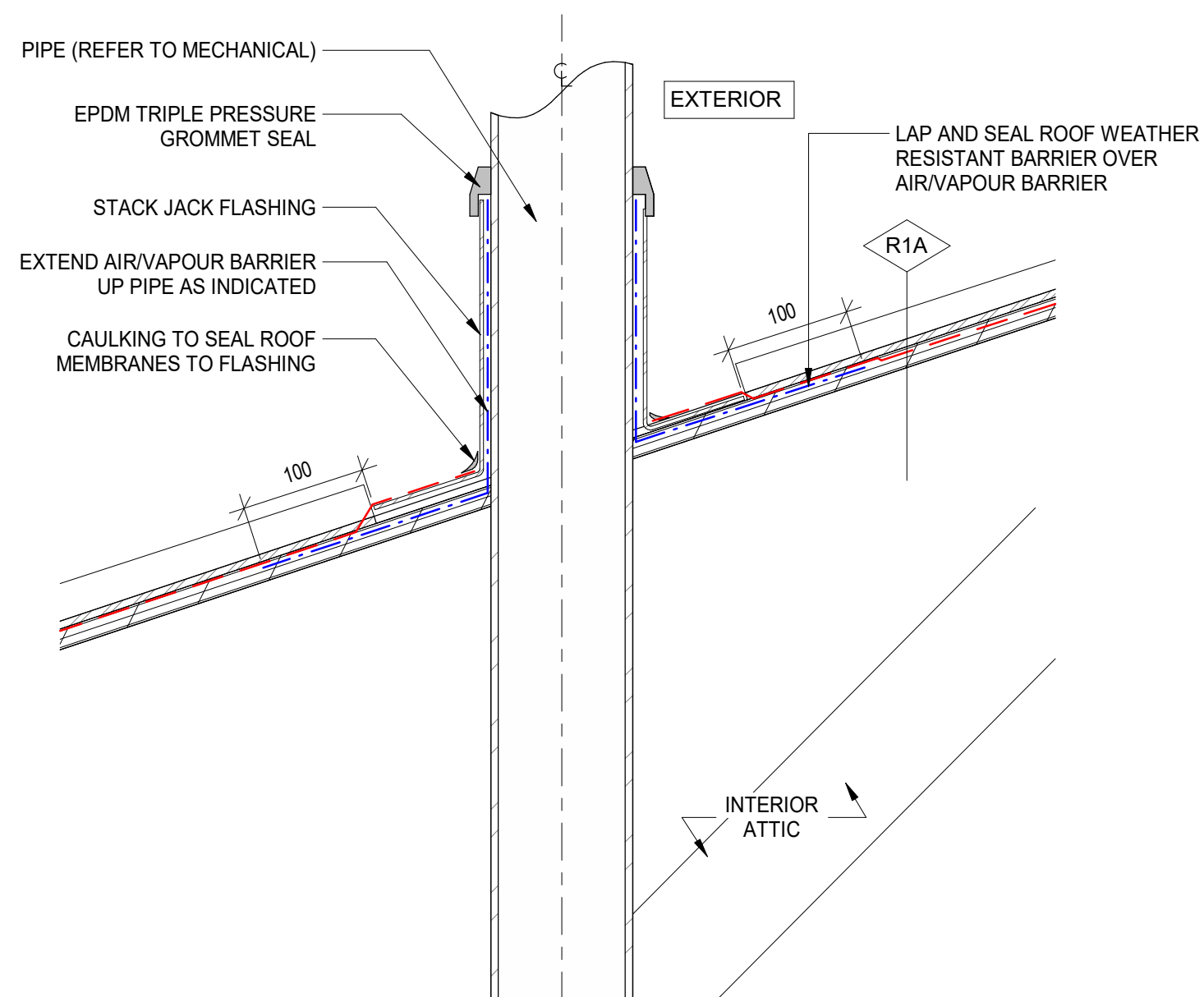
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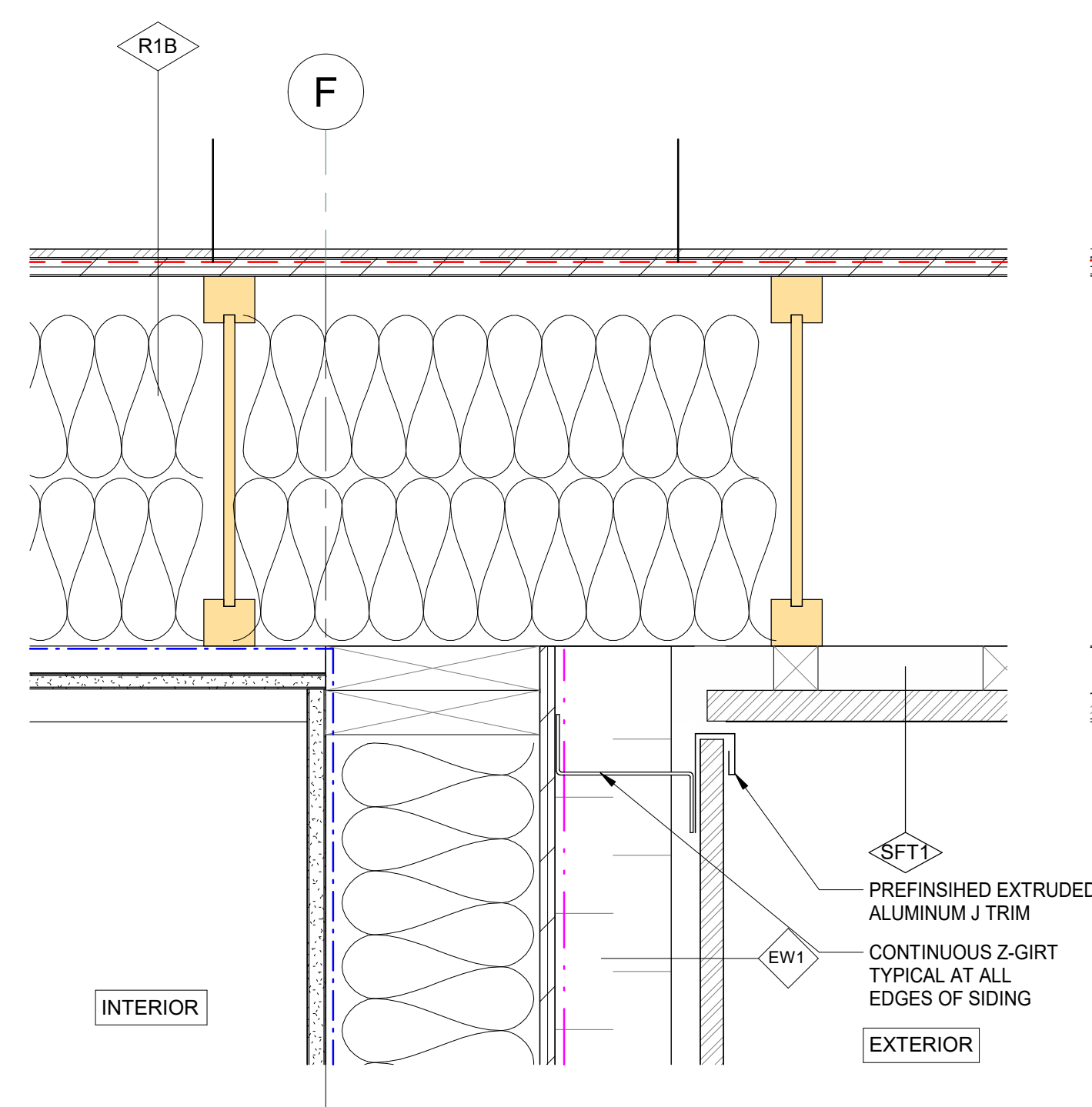
9 SECTION - TYP. WINDOW HEAD
A503 SCALE: 1 : 5



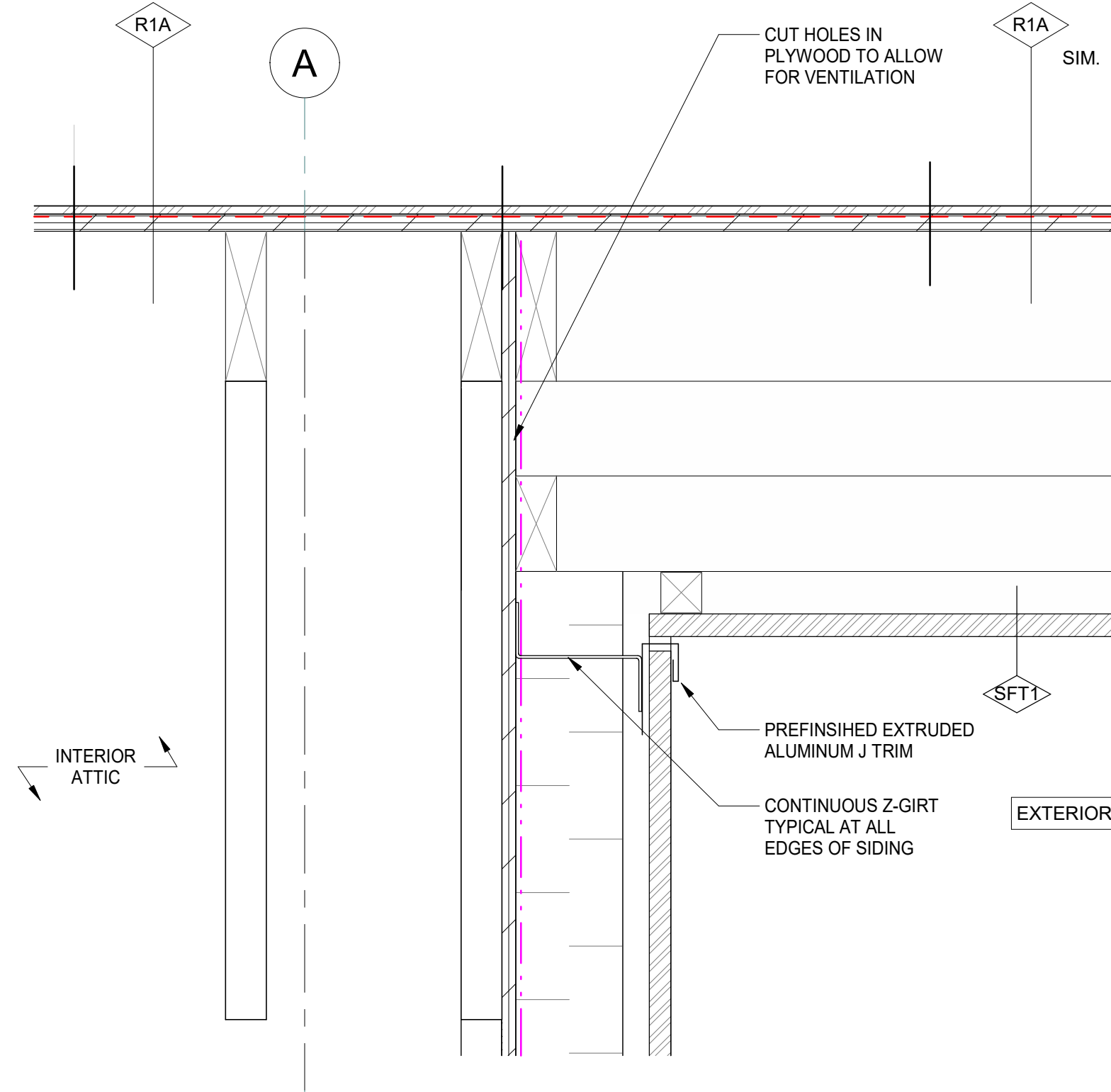
8 SECTION - TYP. WINDOW SILL
A503 SCALE: 1 : 5



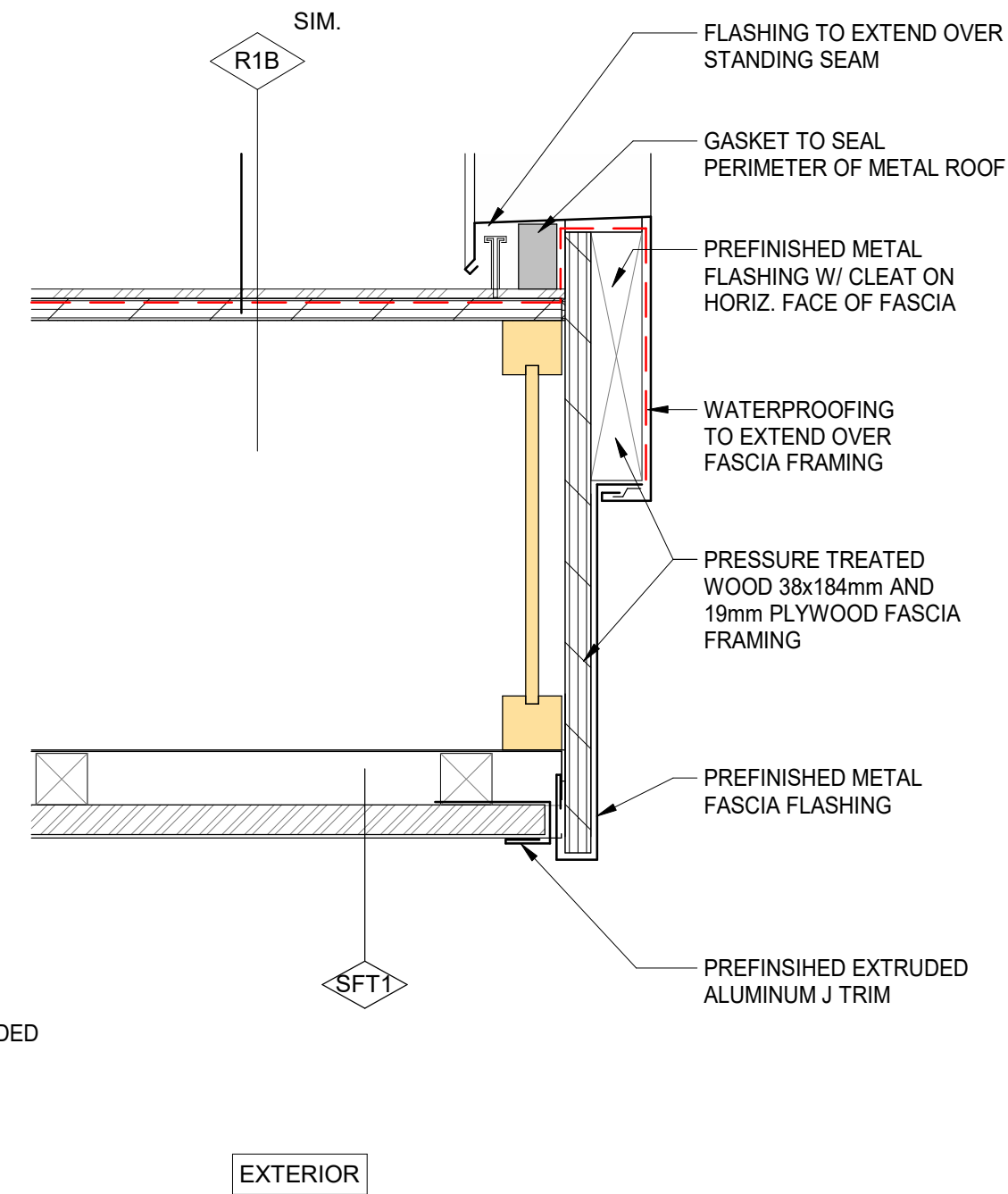
7 SECTION - TYP ROOF VENT/ PENETRATION
A503 SCALE: 1 : 5



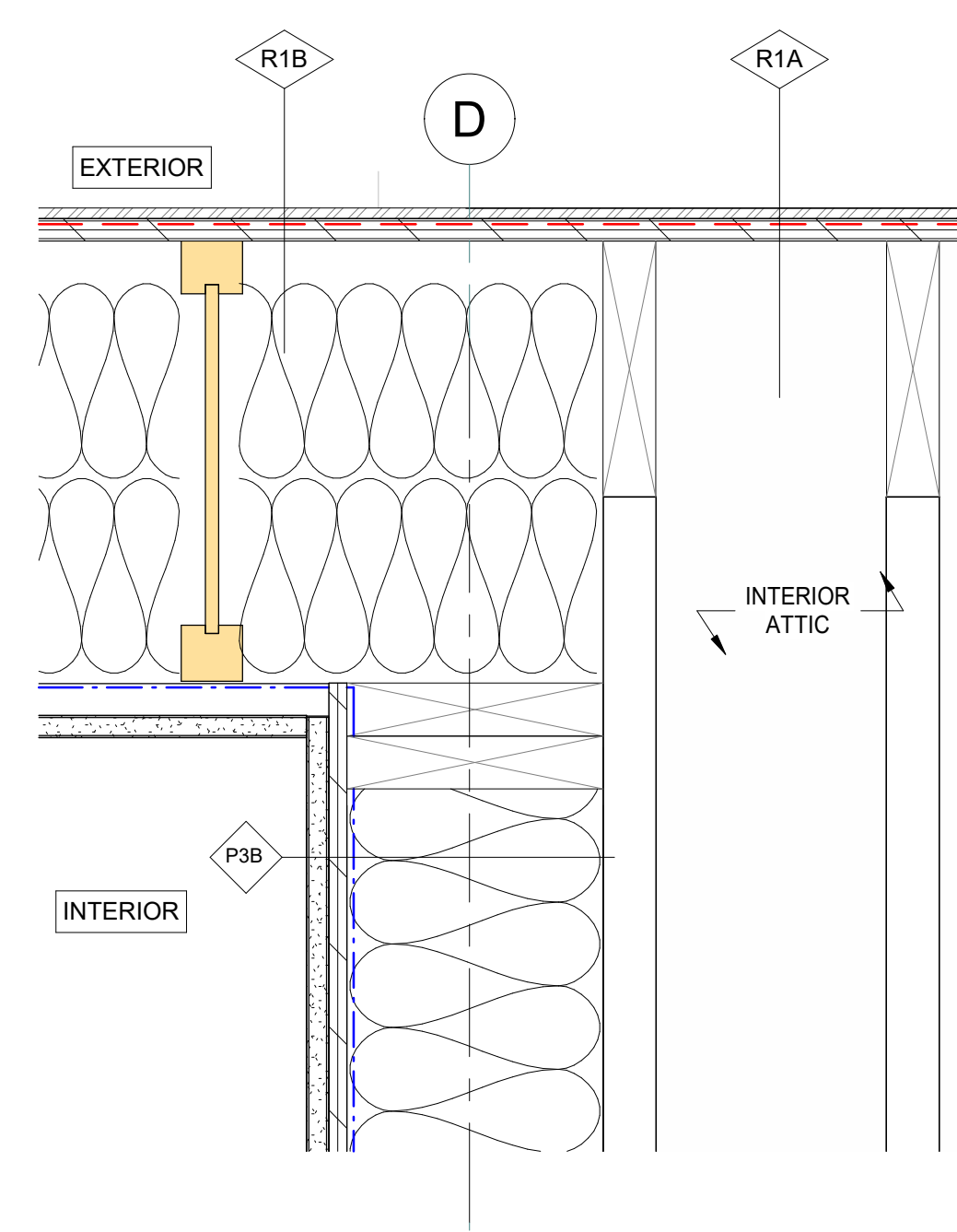
5 SECTION - SOFFIT GRID F (WALL)
A503 SCALE: 1 : 5



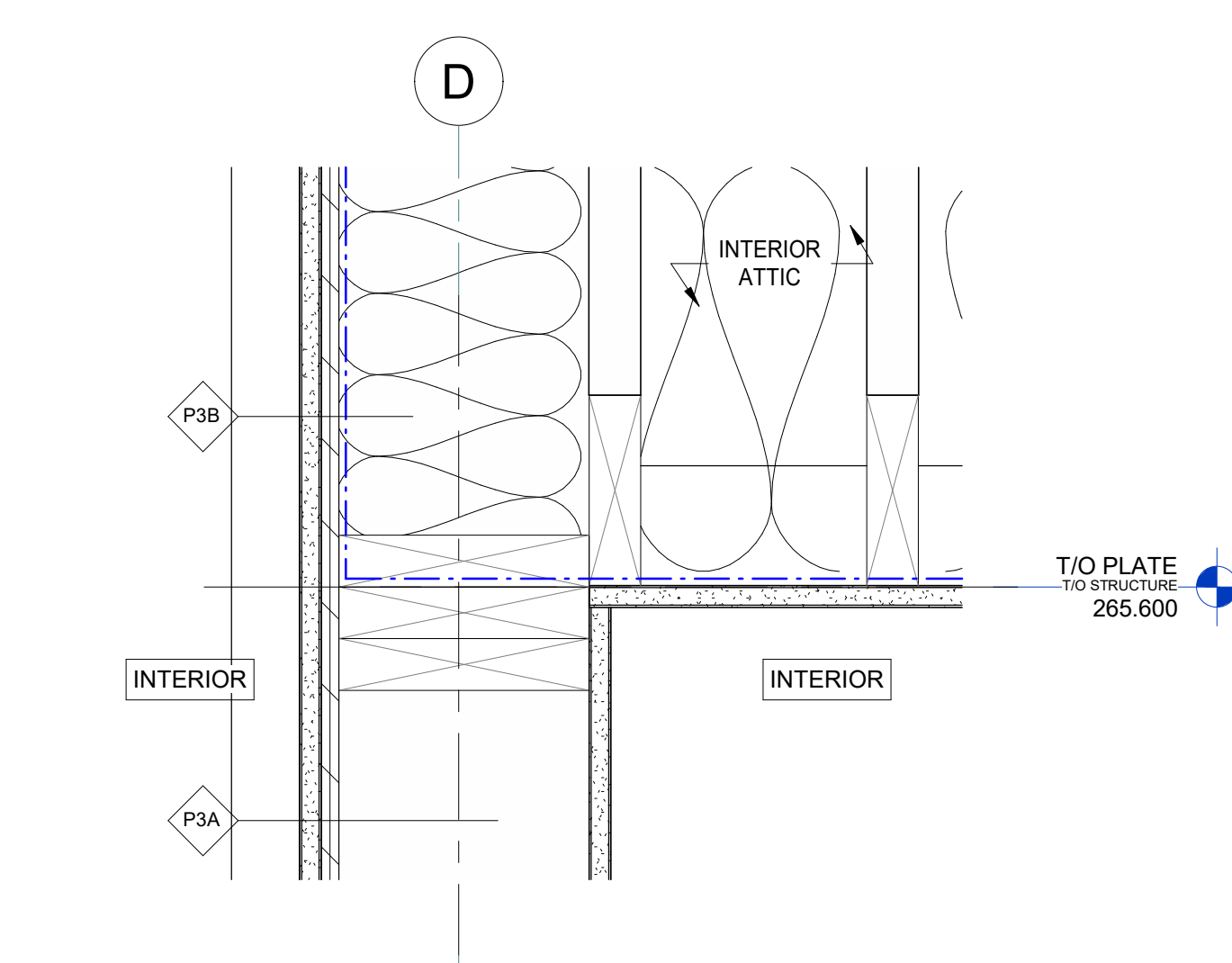
6 SECTION - SOFFIT AT GRID A
A503 SCALE: 1 : 5



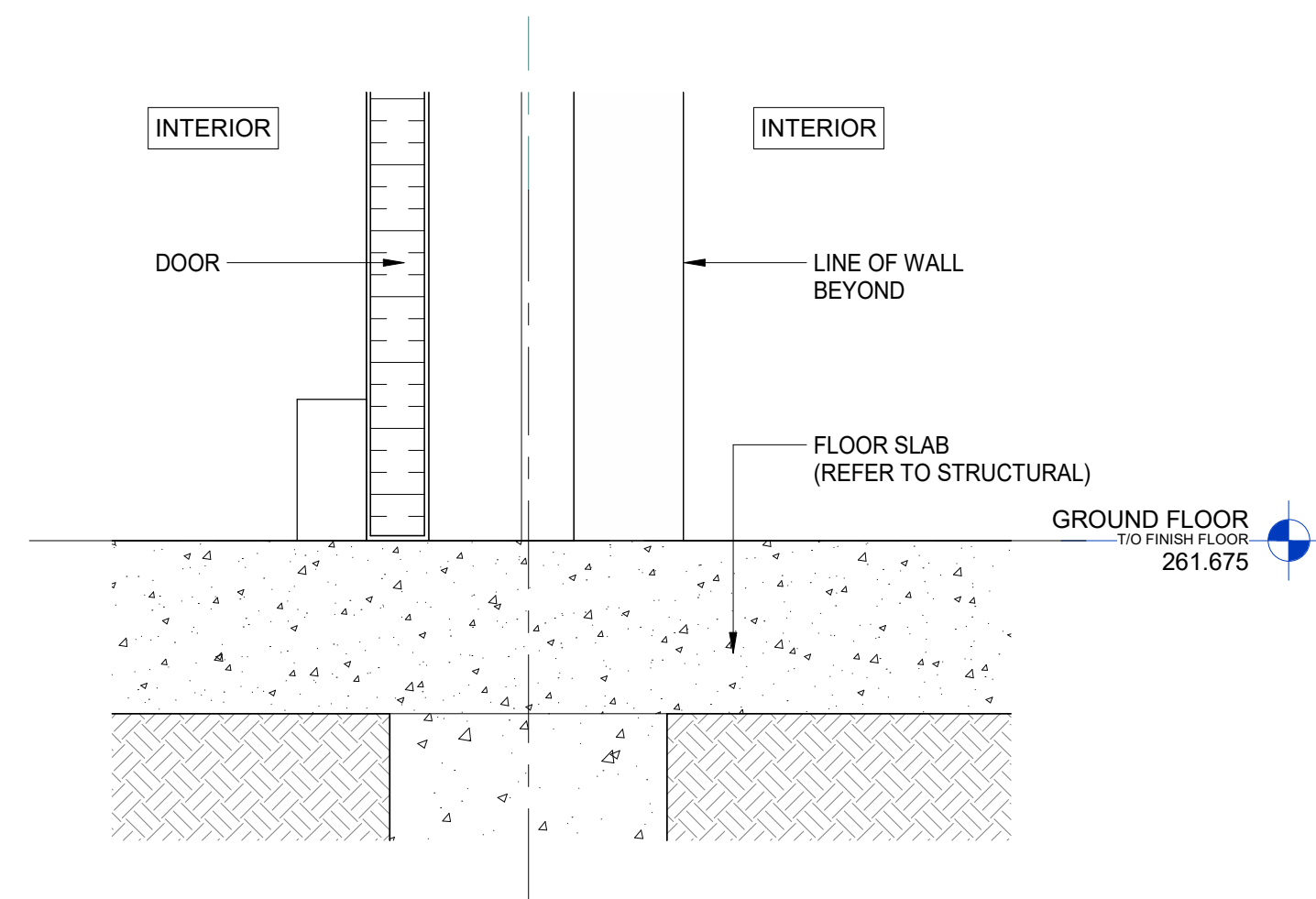
4 SECTION - SOFFIT GRID F (FASCIA)
A503 SCALE: 1 : 5



3 SECTION - ROOF AT GRID D
A503 SCALE: 1 : 5

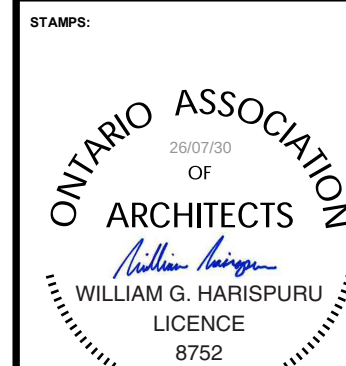


2 SECTION - CEILING JUNCTURE AT GRID D
A503 SCALE: 1 : 5



1 SECTION - TYP. DOOR SILL ALONG GRID D
A503 SCALE: 1 : 5

0	2026-07-30	ISSUED FOR TENDER	W.H.
No.	Date	Description	By



ARCHITECT:
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C2 Architecture Inc.
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PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

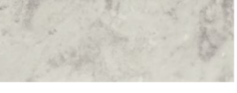
SHEET TITLE:
SECTION DETAILS

DISCIPLINE:
ARCHITECTURE

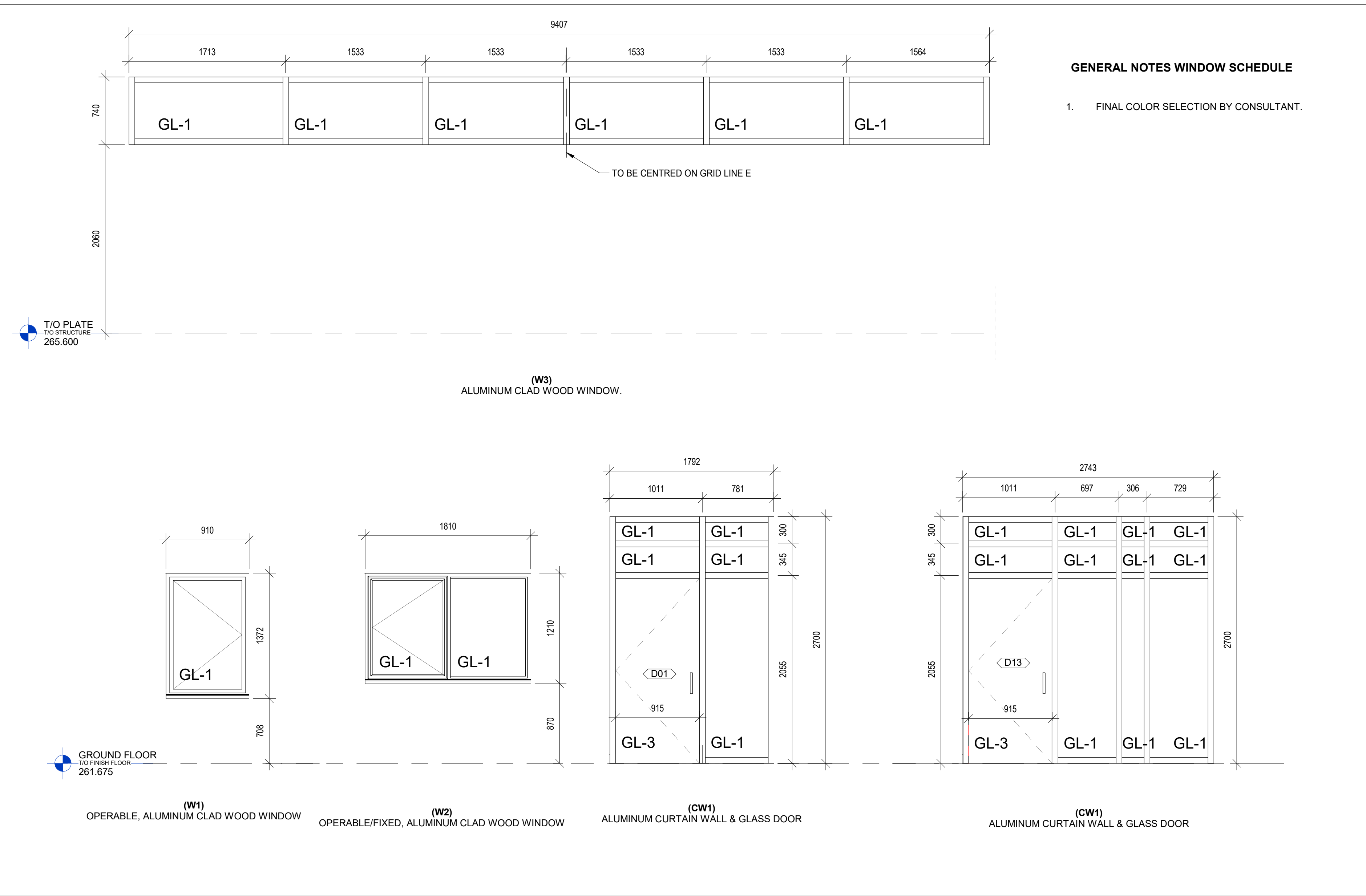
DRAWER:	M.M.	SCALE:	AS NOTED
DESIGNER:	C2/CIMA	DATE:	2026-07-30
APPROVER:	W.H.	CHECKER:	S.A.
PROJECT No.:	Z0029853	DRAWING No.:	A503
SHEET No.:	17 of 20		



DRAFTER:	MM	SCALE:	AS NOTED
DESIGNER:	C2/CIMA	DATE:	2026-07-3
APPROVER:	WH	CHECKER:	SA
PROJECT No:	Z0029853	DRAWING No:	A504
SHEET No:	18 of 20		

GANARASKA - MATERIAL SCHEDULE												
TAG	SYSTEM TYPE	IMAGE	LOCATION	MANUFACTURER	PRODUCT / COLOUR	USE/FUNCTION	SIZE / THICKNESS	FINISH / PATTERN	EDGE / TRANSITION	SUPPLY / INSTALL BY	SPEC REF.	INSTALLATION NOTES / PERFORMANCE
PT-1	PAINT		ALL AREAS	DULUX / BENJAMIN MOORE / SHERWIN-WILLIAMS (OR APPROVED EQUAL)	WHITE DOVE OC-17 (WARM WHITE)	GENERAL WALL PAINT FINISH	N/A	LOW SHEEN WASHABLE ACRYLIC	AT TRIMS / BASE	GC	INTERIOR PAINTING 09 91 23	LOW VOC
PT-2			FEATURE WALLS	DULUX / BENJAMIN MOORE / SHERWIN-WILLIAMS (OR APPROVED EQUAL)	VINTAGE VOGUE 462 (SMOKY GREEN)	ACCENT WALL	N/A	LOW SHEEN ACRYLIC	ALIGN W/ DATUM LINES	GC	INTERIOR PAINTING 09 91 23	CONFIRM LAYOUT ON SITE
PT-3			KITCHEN / UTILITY ROOM / STORAGE ROOM	DULUX / BENJAMIN MOORE / SHERWIN-WILLIAMS (OR APPROVED EQUAL)	RUSTIQUE AF-275 (WARM TERRACOTTA / CLAY)	ACCENT WALL	N/A	SCRUBBABLE EGGSHELL	ALIGN W/ DATUM LINES	GC	INTERIOR PAINTING 09 91 23	
PT-4			CEILINGS	DULUX / BENJAMIN MOORE / SHERWIN-WILLIAMS (OR APPROVED EQUAL)	WHITE DOVE OC-17 (WARM WHITE)	GENERAL CEILING PAINT FINISH	N/A	MATTE	FLUSH JOINTS	GC	INTERIOR PAINTING 09 91 23	LEVEL 4 FINISH
PT-5			EXPOSED SERVICES	DULUX / BENJAMIN MOORE / SHERWIN-WILLIAMS (OR APPROVED EQUAL)	COLOUR TO MATCH CEILING	VISUAL INTEGRATION	N/A	MATTE	N/A	GC	INTERIOR PAINTING 09 91 24	PAINT EXPOSED DUCTS, CONDUITS, SPRINKLER PIPING AND CABLE TRAYS TOMATCH CEILING COLOUR.
EXP-1	EXPOSED STRUCTURE	N/A	ALL AREAS	EXISTING		ARCHITECTURAL FEATURE	EXISTING	NATURAL CLEAR / MATTE SEALER	N/A	GC		CLEAN AND SEAL EXPOSED TIMBER. PRESERVE NATURAL GRAIN AND CCOLOUR
PC-1	CONCRETE FLOOR		ALL AREAS	LOCAL CONCRETE CONTRACTOR	CAST-IN-PLACE CONCRETE SLAB	FINISHED FLOOR	PER STRUCTURAL	MECHANICALLY POLISHED, SATIN SEALER	SAW-CUT CONTROL JOINTS	GC		POLISH AFTER CONSTRUCTION. APPLY PENETRATING STAIN-RESISTANT SEALER
TB-1	WALL BASE & TRIM		ALL AREAS	LOCAL MILLWORKER	CLEAR PINE	BASEBOARD	100 X 19 mm	CLEAR MATTE FINISH	SQUARE PROFILE	GC		SQUARE PROFILE. NO DECORATIVE MOLDINGS.
TFL-1	CABINETRY		KITCHEN / UTILITY ROOM / STORAGE ROOM	LOCAL MILLWORKER	CUSTOM MILLWORK - THERMALLY FUSED LAMINATE (TFL) CABINET DOORS IN CLASSIC GRAY (BENJAMIN MOORE OC-23 EQUIVALENT) WHITE MELAMINE CABINET INTERIORS.	UPPER AND LOWER CABINETRY	N/A	SMOOTH MATTE LAMINATE	2mm COLOUR-MATCHED ABS EDGING TO EXPOSED EDGES	GC	ARCHITECTURAL WOODWORK 06 40 00	MOISTURE-RESISTANT PARTICLEBOARD CORE WITH LOW-MAINTENANCE TFL FINISH. SOFT-CLOSE CONCEALED EUROPEAN HINGES AND FULL-EXTENSION SOFT-CLOSE DRAWER SLIDES. INTERIOR SHELVING ADJUSTABLE. DURABLE COMMERCIAL-GRADE CONSTRUCTION SUITABLE FOR HIGH-USE COMMUNITY FACILITY.
HW-1	CABINETRY HARDWARE		KITCHEN / UTILITY ROOM / STORAGE ROOM	RICHELIEU / HÄFELE / RICHELIEU APPROVED EQUAL	MATTE BLACK POWDER-COATED BAR PULLS	CABINETRY - DOOR AND DRAWER OPERATION	160 mm C/C PULLS	MATTE BLACK	SURFACE MOUNTED	GC	ARCHITECTURAL WOODWORK 06 40 00	COMMERCIAL-GRADE HARDWARE. COORDINATE FINISH WITH DOOR HARDWARE AND LIGHTING FIXTURES. FASTENERS CONCEALED WHERE POSSIBLE.
PL-1	CABINETRY		KITCHEN / UTILITY ROOM / STORAGE ROOM	WILSONART / FORMICA / ARBORITE / APPROVED EQUAL	HIGH PRESSURE LAMINATE (HPL) - ORTENSIA 5038 (LIGHT WARM GREY STONE PATTERN)	COUNTERTOP	38mm POSTFORMED EDGE		SQUARE EDGE	GC	ARCHITECTURAL WOODWORK 06 40 00	COMMERCIAL-GRADE HPL COUNTERTOP WITH MOISTURE-RESISTANT SUBSTRATE. COLOUR TO RESEMBLE LIGHT CONCRETE OR QUARTZ. DURABLE, STAIN-RESISTANT AND EASY TO MAINTAIN. SILICONE SEAL ALL JOINTS ADJACENT TO SINKS.

WINDOW SCHEDULE



0	2026-07-30	ISSUED FOR TENDER	W.H.
No.	Date	Description	By



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CLIENT:

Ganaraska CONSERVATION

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

MATERIAL & WINDOW SCHEDULE

ARCHITECTURE			
DRAFTER:	J.S.	SCALE:	AS NOTED
DESIGNER:	C2/CIMA	DATE:	2026-07-30
APPROVER:	W.H.	CHECKER:	S.A.
PROJECT No:	Z0029853	DRAWING No:	A602
SHEET No:	20 of 20		

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GENERAL NOTES:

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE REMAINDER OF THE CONTRACT DRAWINGS AND DOCUMENTS.
2. VERIFY ALL DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH THE REMAINDER OF THE CONTRACT DRAWINGS BEFORE CONSTRUCTION. ANY DISCREPANCIES OR ERRORS MUST BE REPORTED TO THE ENGINEER PRIOR TO STARTING THE WORK.
3. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. DO NOT SCALE FROM DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
4. DESIGN LOADS INDICATED ARE UNFACTORED UNLESS NOTED OTHERWISE.
5. DESIGN LIVE LOADS FOR EACH PORTION OF THE STRUCTURE ARE SHOWN. DO NOT EXCEED THESE LOADS DURING CONSTRUCTION.
6. STRUCTURAL DESIGN IS BASED ON THE LATEST EDITION OF THE NATIONAL AND ONTARIO BUILDING CODES, SUBSTRUCTURES AND WATER RETAINING TANKS, RESERVOIRS AND CONDUITS HAVE BEEN DESIGNED IN ACCORDANCE WITH CODE REQUIREMENTS FOR ENVIRONMENTAL CONCRETE STRUCTURES (ACI) 350-06 EXCEPT WHERE IT WAS NOT CONSIDERED APPLICABLE.
7. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
8. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
9. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SMALL OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS.
10. DO NOT SCALE DRAWINGS.
11. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.
12. SUBMIT DRAWINGS OF EXISTING BUILDING SHORING FOR REVIEW. DRAWINGS TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.

FOUNDATION

1. THE DESIGN OF TEMPORARY WORKS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTROL OF THE GROUND WATER SHALL BE CARRIED OUT BY A SPECIALIZED FOUNDATION CONSULTANT, ENGAGED BY THE CONTRACTOR. THE COSTS OF ANY ADDITION GEOTECHNICAL INVESTIGATION AND/OR TESTING IS INCIDENTAL TO THE WORK AND WILL NOT BE CONSIDERED AS EXTRA COST TO THE OWNER.
2. THE SPECIALIZED FOUNDATION CONSULTANTS SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, TESTING, MONITORING AND, IF REQUIRED, REMOVAL OF TEMPORARY SHORING AND DEWATERING SYSTEMS.
3. BACKFILL AGAINST FOUNDATION WALL IN SUCH A MANNER THAT THE LEVEL OFBACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 450mm DIFFERENCE FROM THE LEVEL ON THE OTHER SIDE OF THE WALL UNLESS TEMPORARY SUPPORT FOR THE WALL IS PROVIDED.
4. SOFT AREAS UNCOVERED ON EXCAVATION SHALL BE SUB EXCAVATED TO SOUND MATERIAL AND FILLED WITH GRANULAR 'A' SOIL COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY.
5. PLACE SLAB ON GRADE ON SOIL CAPABLE OF SUSTAINING 24 kPa WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOOTINGS.

STRUCTURAL STEEL:

1. COORDINATE WITH MECHANICAL ENGINEER, ELECTRICAL ENGINEER AND ALL SUB-TRADES WHOSE WORK AFFECTS THE DETAILING, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL. DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT APPROVAL OF ENGINEER.
2. PREPARE AND SUBMIT FULLY DETAILED AND DIMENSIONED DRAWINGS AND ERECTION DIAGRAM. COPIES SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW. ERECTION DRAWINGS SHALL BE SEALED BY THE FABRICATOR'S ENGINEER.
3. COPIES OF THE ERECTION AND FABRICATION DRAWINGS SHALL BE PROVIDED AS REQUIRED FOR THE OWNER'S FILE AND/OR THE MUNICIPALITY.
4. BOLTED CONNECTIONS SHALL BE MADE USING HIGH TENSILE STRENGTH BOLTS.
5. PROVIDE TEMPORARY BRACING NECESSARY TO KEEP THE STRUCTURE TRUE AND PLUMB DURING CONSTRUCTION UNTIL PERMANENT BRACING IS INSTALLED. BRACING DESIGN SHALL BE PROVIDED AND CERTIFIED BY FABRICATOR'S ENGINEER.
6. ALL CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTIONS AND ARE TO BE DESIGNED AND CERTIFIED BY THE FABRICATOR'S ENGINEER AS PER CSA S16.1.
7. VARIATIONS FROM PLUMB AND LEVEL:
EXTERIOR COLUMNS, SPANDREL BEAMS, AND ANGLES: ± 3/3000
OTHER MEMBERS: ± 6/3000
8. STEEL SHALL BE THOROUGHLY CLEANED AND BE GIVEN ONE SHOP COAT OF ANTI-CORROSIVE PRIMER. AREAS AFFECTED BY WEATHERING, OR ANY OTHER DAMAGE SHALL HAVE THE RUST REMOVED AND BE "TOUCHED UP" IN THE FIELD. STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED UNLESS NOTED ELSEWHERE. GALVANIZING SHALL BE REMOVED LOCALLY PRIOR TO ANY STRUCTURAL FIELD WELDING.

MATERIALS:

1. CONCRETE SLAB INFILL AND THICKENING SHALL BE 25 MPa, CLASS N, CONCRETE PILE CAP AND FOUNDATION WALLS SHALL BE 35 MPa, CLASS N
2. ALL REINFORCING BAR SHALL BE GRADE 400MPa, DEFORMED, CAN/CSA-G30.18.
3. MORTAR SHALL BE TYPE "S" UNLESS NOTED OTHERWISE.
4. CONCRETE FILL IN REINFORCED MASONRY SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 20MPa.
5. COLUMN BEARING GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 40MPa.
6. STRUCTURAL STEEL TO CONFORM TO CAN/CSA-G40.21, UNO.

W SECTIONS: GRADE 350W
L AND C SECTIONS: GRADE 350W
HSS SECTIONS: GRADE 350 CLASS 'H'

7. THE WELDING ELECTRODES SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W48 (LATEST EDITION).

CONSTRUCTION JOINTS

1. CONSTRUCTION JOINTS SHALL BE DOWELED, KEYED AND THE SURFACES SHALL BE CLEANED AND LAITANCE REMOVED. ALTERNATIVELY, WHERE APPROVED BY ENGINEER, PROVIDE JOINTS CLEANED AND ROUGHENED TO 5mm (1/4") AMPLITUDE BY MECHANICAL METHODS.
2. CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. THE CONTRACTOR MUST CONSULT WITH THE ENGINEER REGARDING THE LOCATION OF ALL CONSTRUCTION JOINTS.
3. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF THE SET CONCRETE SHALL BE THOROUGHLY CLEANED OF FOREIGN MATTER AND LAITANCE USING MECHANICAL ABRASION, SATURATED WITH WATER AND LEFT IN A DAMP CONDITION WITH NO FREE WATER ON THE SURFACE IMMEDIATELY BEFORE PLACING ADJACENT CONCRETE.
4. REINFORCING STEEL PROJECTING THROUGH CONSTRUCTION JOINT SHALL BE THOROUGHLY CLEANED OF LOOSE, FLAKY RUST, MUD, OIL, AND DRIED CONCRETE OR OTHER COATINGS WHICH WOULD REDUCE BOND, USING MECHANICAL ABRASION OR SAND BLASTING, OF THE SURFACE OF THE STEEL

CAST-IN-PLACE CONCRETE:

1. DO CONCRETE WORK IN ACCORDANCE WITH THE LATEST VERSION OF THE APPLICABLE CODES AND STANDARDS.
2. SUBMIT REINFORCING DIAGRAMS BEFORE FABRICATION FOR REVIEW BY THE ENGINEER.
3. REINFORCING IS TO BE GENERALLY DETAILED IN ACCORDANCE WITH THE RSIC MANUAL OF STANDARD PRACTICE (LATEST EDITION). SPLICES SHALL BE CLASS 'B' TENSION LAP SPLICES.
4. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS:

FORMED CONCRETE NOT EXPOSED TO WATER OR WEATHER:	40mm
FORMED CONCRETE EXPOSED TO WATER, WEATHER OR EARTH:	50mm
CONCRETE PLACED AGAINST MUD MAT:	50mm
CONCRETE PLACED AGAINST EARTH:	75mm
5. UNLESS INDICATED OTHERWISE, ALL DOWELS SHALL HAVE THE SAME SIZE AND SPACING AS THE REINFORCING STEEL TO WHICH THEY ARE SPLICED.
6. ALL REINFORCING STEEL PLACEMENT TO BE INSPECTED BY THE ENGINEER BEFORE PLACING THE CONCRETE.
7. NO WELDING OF REINFORCING BARS SHALL BE PERMITTED, UNLESS APPROVAL IS OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION.
8. DO NOT SAWCUT THE SLAB ON GRADE OR OTHER FLOORS, UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE DESIGN DRAWINGS.
9. ALL REINFORCING BARS SHALL BE SUPPORTED IN THE FORMS AND SPACED WITH STANDARD ACCESSORIES SO THAT THERE IS NO MOVEMENT DURING CONCRETE PLACEMENT.
10. PROVIDE REINFORCING DOWELS PROJECTING FROM CAST-IN-PLACE CONCRETE INTO BLOCK WALLS TO MATCH VERTICAL REINFORCING IN BLOCK WALLS.

DELEGATED DESIGN:

1. SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN TO THE PRIME CONSULTANT FOR COORDINATION REVIEW.
2. SHOP DRAWINGS SHALL CLEARLY INDICATE ANY LOADS IMPARTED TO THE STRUCTURE.
3. CONNECTIONS TO THE PRIMARY STRUCTURE SHALL ACCOMMODATE DEFLECTIONS IN THE PRIMARY STRUCTURE. THE CONTRACTOR MAY SEEK GUIDANCE FROM THE ENGINEER OF RECORD AS TO DESIGN LOADS, DEFLECTIONS, ETC.

CLIMATE DATA FOR PORT HOPE				
IMPORTANCE CATEGORY: NORMAL				
LOAD TYPE		LOAD		IMPORTANCE FACTOR
SNOW	GROUND SNOW LOAD (1/50 YEARS)	Ss	2.6 kPa	1.0
	ASSOCIATED RAIN LOAD (1/50 YEARS)	Sr	0.4 kPa	
WIND	REFERENCE VELOCITY WIND PRESSURE (1/50 YEARS)	q	0.48 kPa	1.0
EARTHQUAKE	PEAK GROUND ACCELERATION	PGA (X ₀)	0.190	1.0
		Sa(0.2, X ₀)	0.326	
	HORIZONTAL SPECTRAL ACCELERATION VALUES (2% PROBABILITY OF EXCEEDANCE IN 50 YEARS)	Sa(0.5, X ₀)	0.313	
		Sa(1.0, X ₀)	0.188	
		Sa(2.0, X ₀)	0.090	
		Sa(5.0, X ₀)	0.024	
		Sa(10.0, X ₀)	0.008	
	SITE CLASS	X ₀		

WOOD

1. THE STRUCTURAL TIMBER SHALL BE No. 3 GRADE SPECIES S.P.F. OR BETTER UNLESS NOTED OTHERWISE.
2. THE DESIGN OF THE BEAMS, COLUMNS AND LINTELS IS BASED ON THE LIMIT STATES DESIGN SPECIFIED IN DER C.S.A. STANDARD 086. ANY SUBSTITUTION OF SPECIES, GRADE OR GROUP MUST BE APPROVED BY THE ENGINEER PRIOR TO THE COMMENCING OF WORK.
3. THE LUMBER WAS DESIGNED OFR A MOISTURE CONENT GREATER THAN 15% AT THE TIME OF MANUFACTURE AND LESS THAN 15% IN SERVICE.
4. DURING CONSTRUCTION ENSURE ALL MEMBERS ARE IN GOOD BEARING CONTACT.
5. CONNECTION HARDWARE IS TO RECEIVE ONE COAT OF ZINC CHROMATE PRIMER OR EQUAL.
6. ALL PLYWOOD JOINTS ARE TO BE STAGGERED. NAIL ALL FLOOR, ROOF AND WALL SHEATHING AT 150mm c/c. AT EDGES AND 300mm CENTRES ELSEWHERE. UNO.
7. PROVIDE SOLID BLOCKING IN THE EXTERIOR STUDWALLS AT THE LOCATION OF ALL JOINTS IN THE PLYWOOD WITH A MAXIMUM VERTICAL SPACING OF 1200mm c/c. SECURELY NAIL AT A 150mm MAXIMUM SPACING THE INDIVIDUAL SHEETS OF PLYWOOD TO THE SOLID BLOCKING.
8. ALL PLYWOOD SHALL CONFORM TO C.S.A. STANDARD 0121 OR 0151.
9. THE ROOF TRUSSES ARE TO BE "FLAT" OW/WJ OR PROFILED TRUSSES DESIGNED FOR THE SPECIFIED LOADS. THE SUPPLIER IS TO PROVIDE ERECTION AND MEMBER FABRICATION DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED OR LICENSED IN THE PROVINCE OF ONTARIO. THE DRAWING MUST INDICATE DESIGN LOADS, TIMBER SPECIES, GRADES, BRACING AND CONNECTORS. ALL TRUSSES MUST BE ANCHORED WITH TIE DOWN METAL ANCHORS.
10. THE BEARING SHOWN ON THE DRAWINGS IS THE MAXIMUM WIDTH TO BE PROVIDED AND THE TRUSS MANUFACTURER MUST DESIGN HIS TRUSSES TO SUIT THE BEARING WIDTH.
11. PROVIDE STANDARD JOIST HANGERS AS REQUIRED BY SIMPSON, CLEVELAND, MGA OR APPROVED EQUIVALENT.
12. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED AND SHALL BE SEPARATED FROM THE CONCRETE BY A SUITABLE BARRIER MEMBRANE.
13. MAXIMUM BRIDGING SPACING FOR SAWN LUMBER JOISTS SHALL BE 2300mm c/c.
14. SPIKE ALL BUILT UP BEAMS @ 300mm c/c AS FOLLOWS:
1 ROW FOR 140 DEPTH
2 ROWS FOR OTHER
15. SPIKE AND GLUE BUILT UP POSTS @ 220 c/c AS PER CODE AS FOLLOWS:
1 ROW FOR 389mm
2 ROWS FOR OTHER
16. PERMANENT BRACING FOR THE CHORDS OR DIAGONAL TRUSSE MEMBERS SHALL BE INSTALLED AND BE BACK BRACED DIAGONALLY OR ATTACHED TO END WALLS.
17. CONTINUITY OF POSTS MUST BE MAINTAINED THROUGH FLOORS BY SOLID BLOCKING OR POST EXTENSIONS WITHIN THE FLOOR SYSTEM.
18. ROOF JOISTS SHALL BE WOOD "I" JOISTS AS PRODUCED BY TRUSS JOIST, JAGER INDUSTRIES OR APPROVED EQUAL. DESIGN JOISTS FOR THE SPECIFIED LOADS. DEFLECTION CRITERIA: L/360 FOR ROOF. SUBMIT SHOP DRAWINGS AND CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER. THE DRAWINGS MUST INDICATE LOADS, WOOD GRADES AND SPECIES, BRACING, WEB STIFFENERS AND BLOCKING AS WELL AS ALL CONNECTORS.

ABBREVIATIONS

ADDL	ADDITIONAL	L	LENGTH OF REBAR
AGGR	AGGREGATE	LG	LONG
ALT	ALTERNATE	LL	LOWER LEVEL or LIVE LOAD
ALUM	ALUMINUM	LLH	LONG LEG HORIZONTAL
APPROX	APPROXIMATE	LLV	LONG LEG VERTICAL
ARCH	ARCHITECTURAL	LNTL	LINTEL
B/	BOTTOM OF	LP	LOW POINT
BLDG	BUILDING	LW	LONG WAY
BM	BEAM	MAX	MAXIMUM
BPL	BASE PLATE	MC	MOMENT CONNECTION
BL	BOTTOM LOWER LAYER	MECH	MECHANICAL
BOT	BOTTOM	MEMB	MEMBRANE
BRG	BEARING	MEZZ	MEZZANINE
BR	BRACING	MID	MIDDLE
BRDG	BRIDGING	MIN	MINIMUM
BS	BOTH SIDES	MIRR	MIRROR
BTWN	BETWEEN	MISC	MISCELLANEOUS
BUL	BOTTOM UPPER LAYER	N/A	NOT APPLICABLE
BW	BOTH WAYS	NTS	NOT TO SCALE
C/C	CENTER TO CENTER	OC	ON CENTER
C/W	COMPLETE WITH	OD	OUTSIDE DIAMETER
CANT	CANTILEVER	OF	OUTSIDE FACE
CIP	CAST-IN-PLACE	OH	OVERHEAD
± or CL	CENTERLINE	OPNG	OPENING
CP	COMPLETE PENETRATION	OPP	OPPOSITE
CLR	CLEAR	OR	OUTSIDE RADIUS
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE	PCP	PRECAST CONCRETE PANEL
CONN	CONNECTION	PERP	PERPENDICULAR
CONT	CONTINUOUS	PL	PLATE
COORD	COORDINATE	±	PLUS / MINUS
CTR	CENTRE	PRCST	PRECAST
CTRL JT	CONTROL JOINT	PROC	PROCESS
DEMO	DEMOLISH	PSI	POUNDS PER SQUARE INCH
DET	DETAIL	PT CONC	POST-TENSIONED CONCRETE
DIA	DIAMETER	QTY	QUANTITY
DIAG	DIAGONAL	R	RADIUS
DIM	DIMENSION	R/W	REINFORCED WITH
DIST	DISTANCE	REF	REFERENCE
DL	DEAD LOAD	REINF	REINFORCEMENT
-DO-	REPEAT INSTRUCTION	REQD	REQUIRED
DWG	DRAWING	RWL	RAIN WATER LEADER
DWL	DOWEL	S/W	SHORT WAY
EF	EACH FACE	SCD	SCUPPER DRAIN
ELEC	EXPANSION JOINT	SCHED	SCHEDULE
EL	ELECTRICAL	SECT	SECTION
ELEV	ELEVATION	SFT	STEP FOOTING
EMB	EMBEDMENT	SHT	SHEET
EQ	EQUAL	SIM	SIMILAR
EQUIP	EQUIPMENT	SOG	SLAB ON GRADE
EQUIV	EQUIVALENT	SPEC	SPECIFICATION
EIS	EACH SIDE	SPMDD	STANDARD PROCTOR
EX	EXISTING		MAXIMUM DRY DENSITY
EXP	EXPANSION	SS	STAINLESS STEEL
EXT	EXTERIOR	STIF	STIFFENER
EW	EACH WAY	STIR	STIRRUP
FD	FLOOR DRAIN	STD	STANDARD
FDN	FOUNDATION	STR	STRINGER
FMC	FULL MOMENT CONNECTION	STAG	STAGGERED
FRMG	FRAMING	STRUCT	STRUCTURAL
FTG	FOOTING	SYMM	SYMMETRICAL
GA	GAUGE	TEMP	TEMPORARY
GIR	GIRDER	THK	THICK
GL	GRID LINE	T/	TOP OF
GR	GRADE	THRU	THROUGH
GR BM	GRADE BEAM	TJ	TIE JOIST
HC	HOLLOW CORE	TLL	TOP LOWER LAYER
HCMU	HOLLOW CONCRETE MASONRY UNIT	TUL	TOP UPPER LAYER
HEF	HORIZONTAL EACH FACE	TYCALm	TYPICALm
HIF	HORIZONTAL INSIDE FACE	T&B	TOP AND BOTTOM
HOF	HORIZONTAL OUTSIDE FACE	UNO	UNLESS NOTED OTHERWISE
H1E	HOOK ONE END	U/S	UNDERSIDE
H2E	HOOK TWO ENDS	VB	VERTICAL BRACING
HL	HIGH LEVEL	VEF	VERTICAL EACH FACE
HORIZ	HORIZONTAL	VERT	VERTICAL
HP	HIGH POINT	VIF	VERTICAL INSIDE FACE
HSS	HOLLOW STRUCTURAL STEEL	VOF	VERTICAL OUTSIDE FACE
ID	INTERNAL DIAMETER	W/	WITH
IF	INSIDE FACE	W/O	WITHOUT
IFC	ISSUED FOR CONSTRUCTION	WPL	WALL PLATE
IFT	ISSUED FOR TENDER	WWM	WELDED WIRE MESH
INT	INTERIOR	XBR	CROSS BRACE
INV	INVERT	XSECT	CROSS SECTION
KO	KNOCK OUT		

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No.	Date	Description	By

STAMP:



DESIGNED BY

APPROVED BY

CONSULTANT(S):

ENGINEER:



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www.cima.ca

CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

GENERAL NOTES

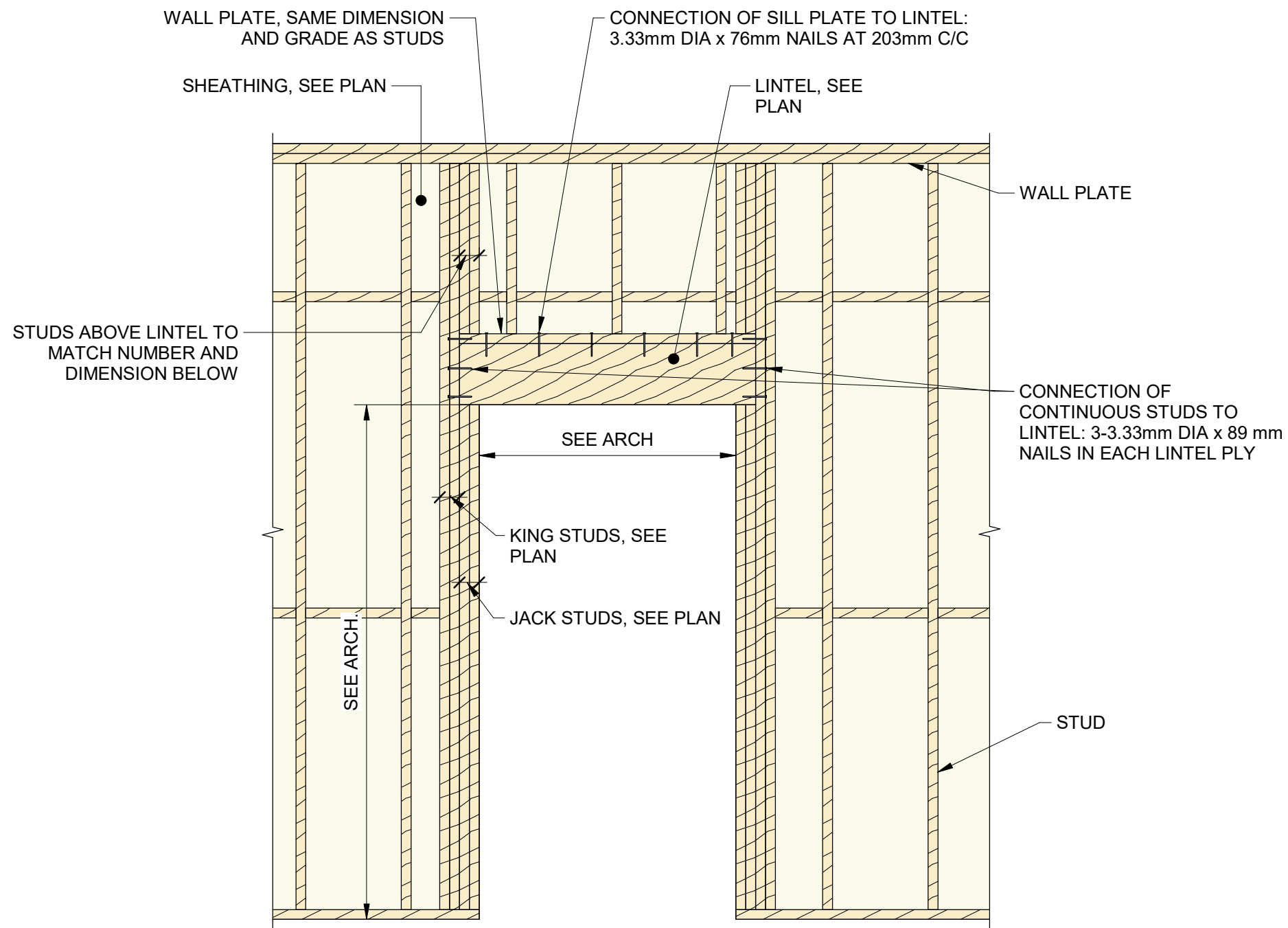
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STRUCTURAL

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APPROVER:	S.Y.	CHECKER:	S.Y.
PROJECT No:	Z0020853	DRAWING No:	S001
SHEET No:	1 of 13		

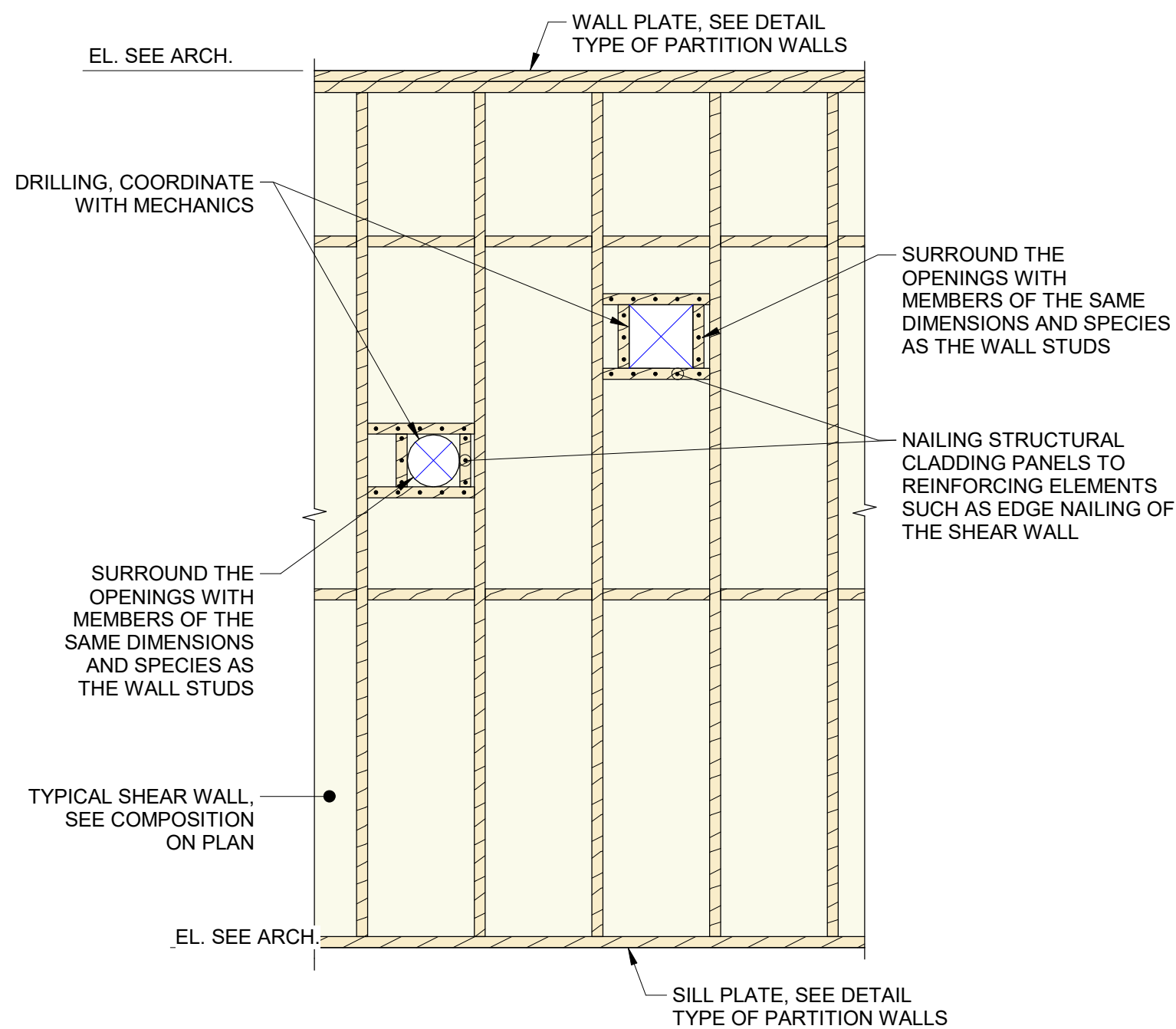
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DOOR IN A LOAD-BEARING WALL WITH LINTEL ABOVE OPENING

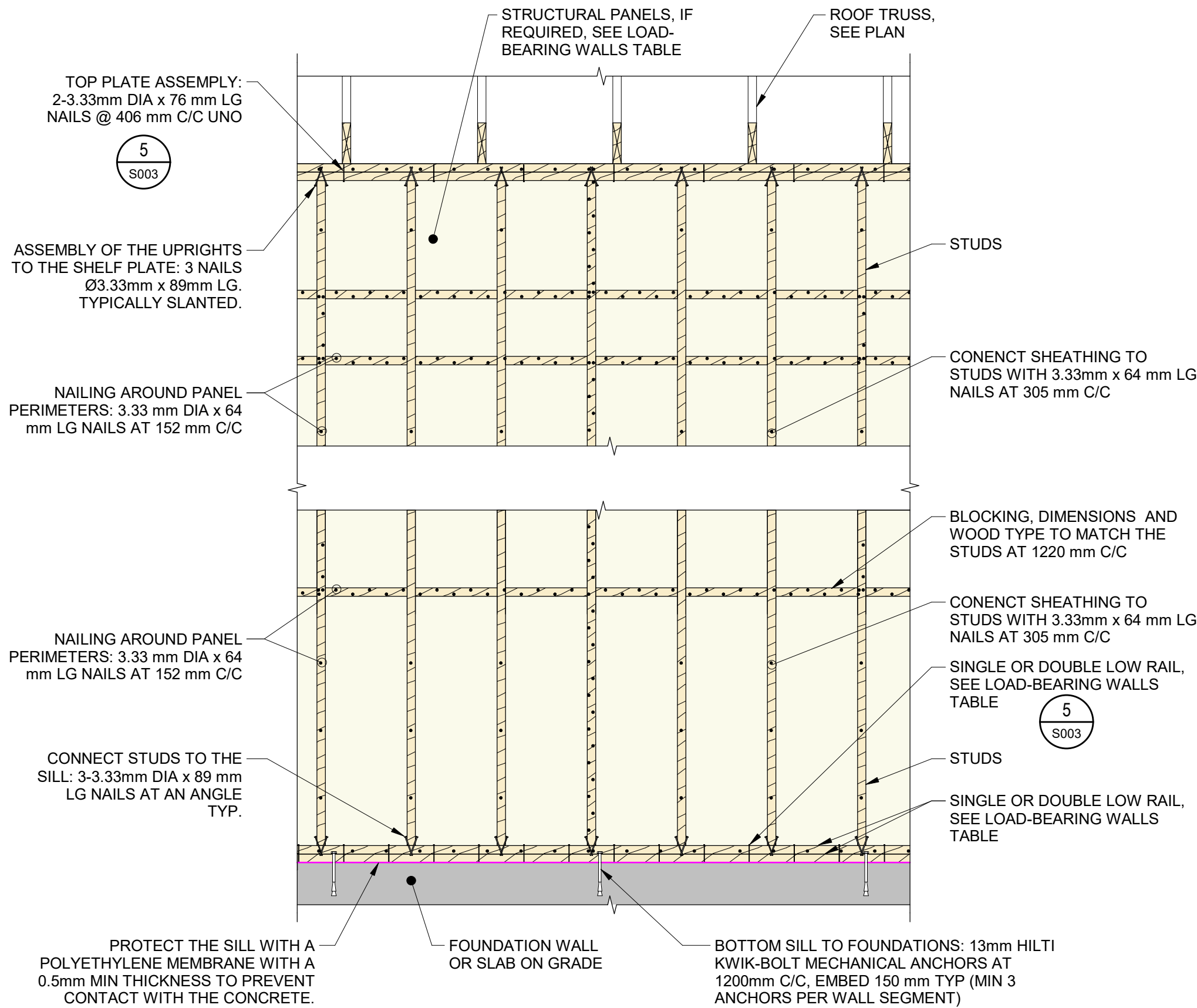
1 TYP. DETAIL
S002 SCALE: 1 : 20



- NOTES:
- THE SUM OF ALL OPENINGS IN A SINGLE SHEAR WALL MUST NOT EXCEED 5% OF THE TOTAL LENGTH OF THE WALL.
 - ONLY OPENINGS INDICATED ON THE MECHANICAL DRAWINGS ARE ALLOWED.
 - CONDUIT MUST BE LOCATED BETWEEN THE STUDS. NO OPENINGS IN THE STUDS ARE ALLOWED.

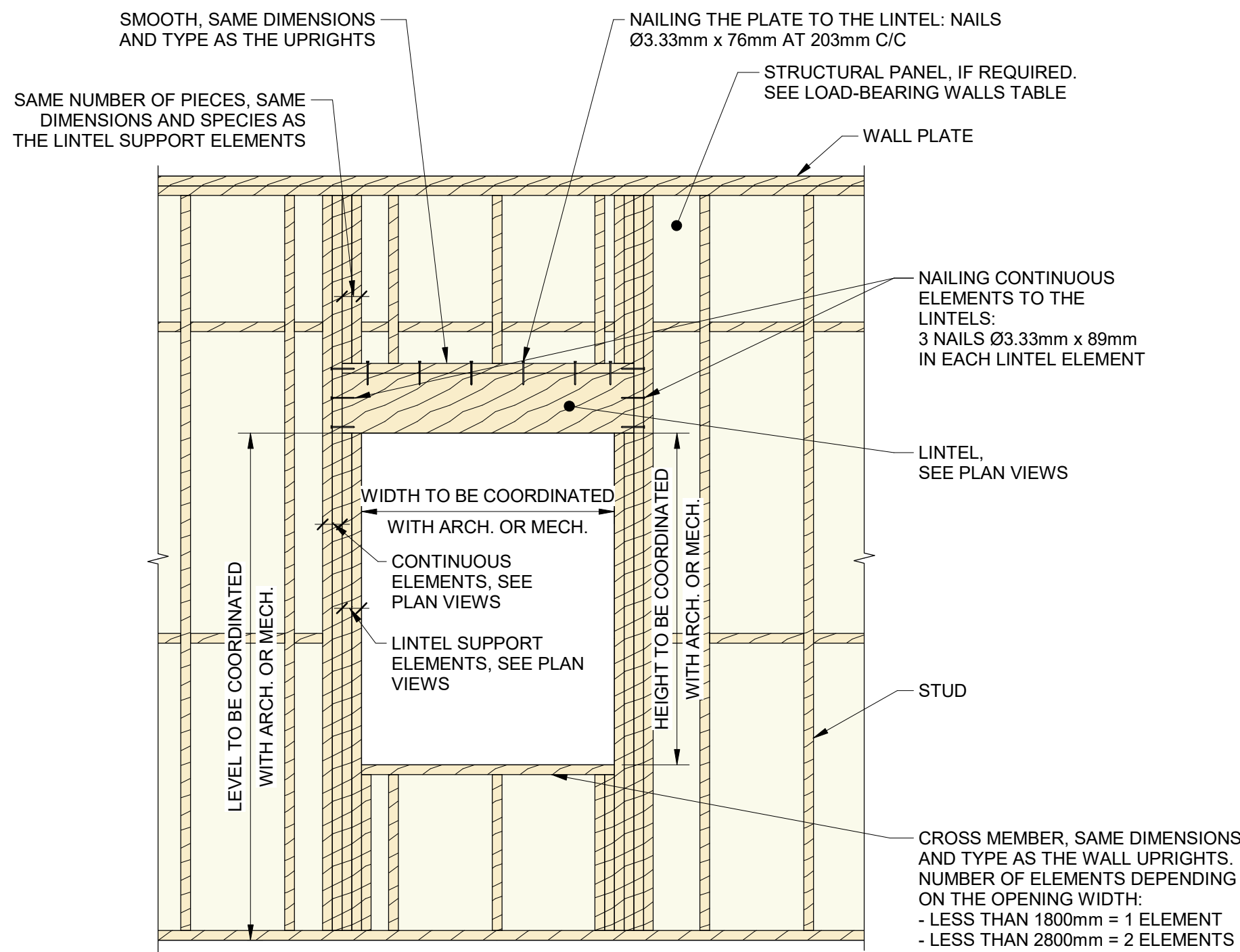
REINFORCEMENTS FOR OPENINGS $\leq 300\text{mm}$ IN A SHEAR WALL

2 TYP. DETAIL
S002 SCALE: 1 : 20



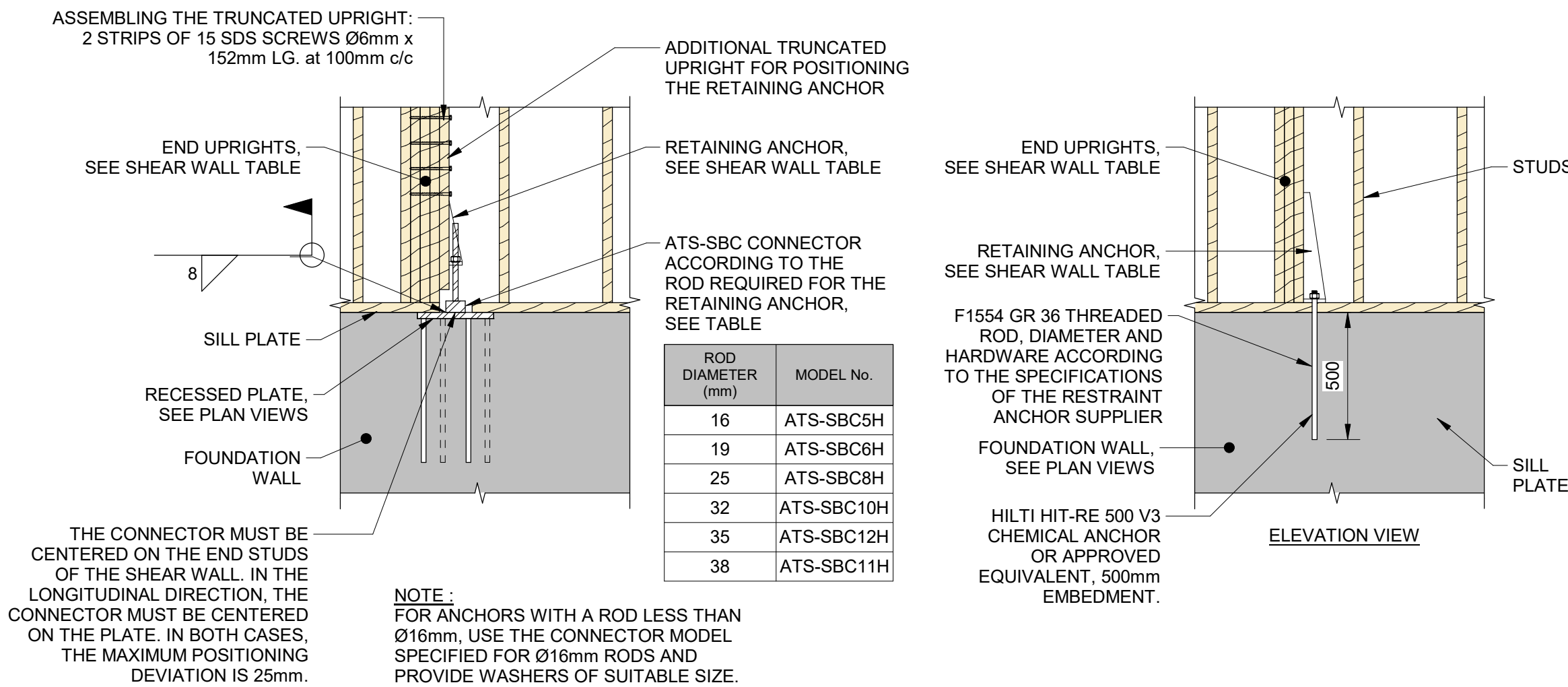
LOAD BEARING WALLS

3 TYP. DETAIL
S002 SCALE: 1 : 20

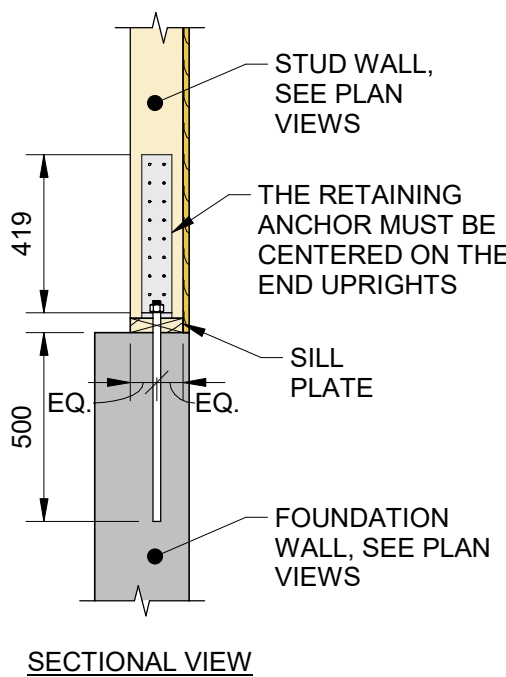


WINDOW OPENING IN A LOAD-BEARING WALL LINTEL ABOVE THE OPENING

4 TYP. DETAIL
S002 SCALE: 1 : 20



ROD DIAMETER (mm)	MODEL No.
16	ATS-SBC5H
19	ATS-SBC6H
25	ATS-SBC8H
32	ATS-SBC10H
35	ATS-SBC12H
38	ATS-SBC11H



SECTIONAL VIEW

RETAINING ANCHORS

5 TYP. DETAIL
S002 SCALE: 1 : 20

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STAMPE:



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APPROVED BY

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CLIENT:

PROJECT NAME:

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SHEET TITLE:

TYPICAL DETAILS - WALL

DISCIPLINE:

STRUCTURAL

DRAFTER:

K.L. / E.E.

SCALE:

AS NOTED

DESIGNER:

B.S.

DATE:

2026-07-30

APPROVER:

S.Y.

CHECKER:

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PROJECT No.:

Z0020853

DRAWING No.:

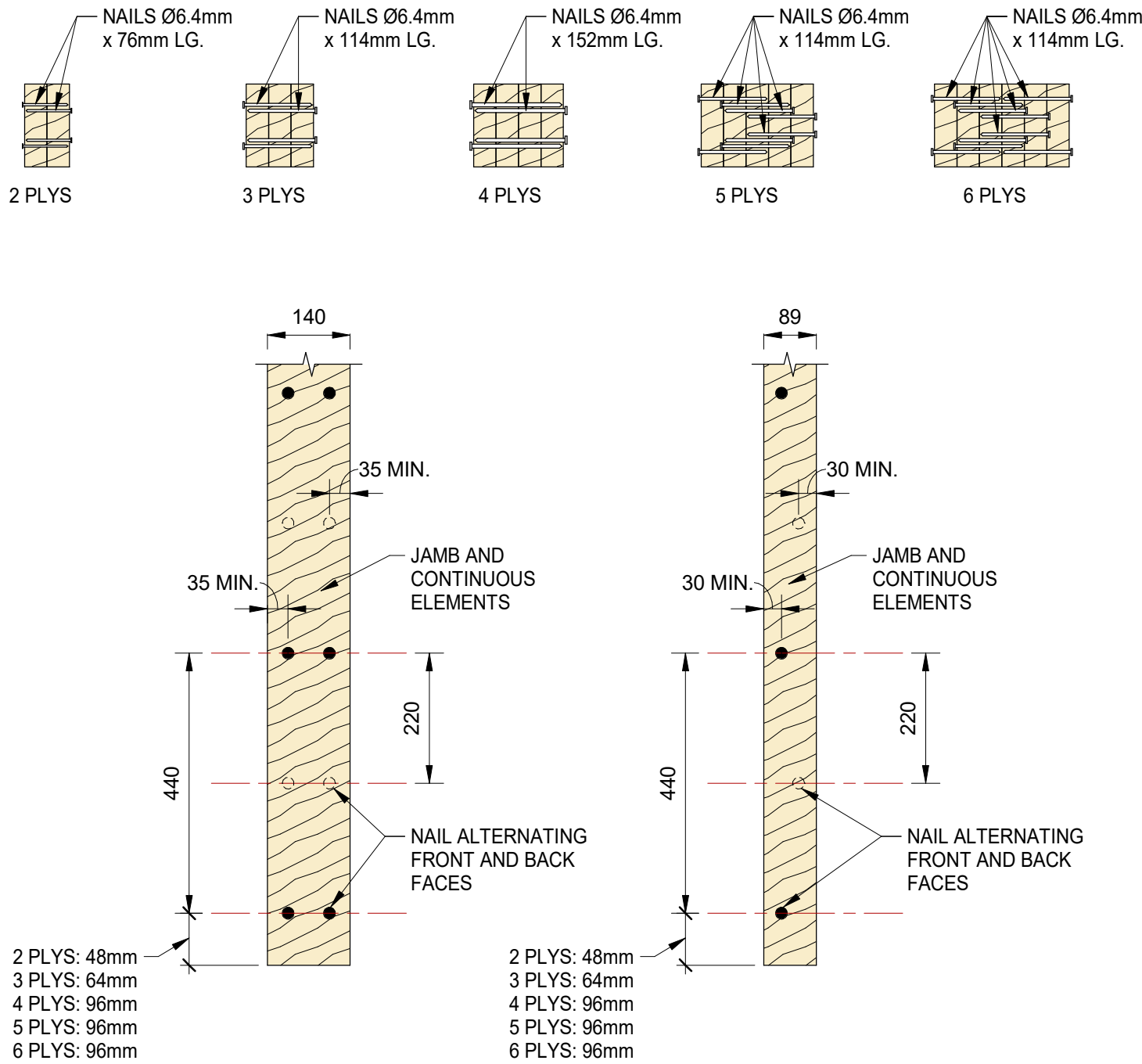
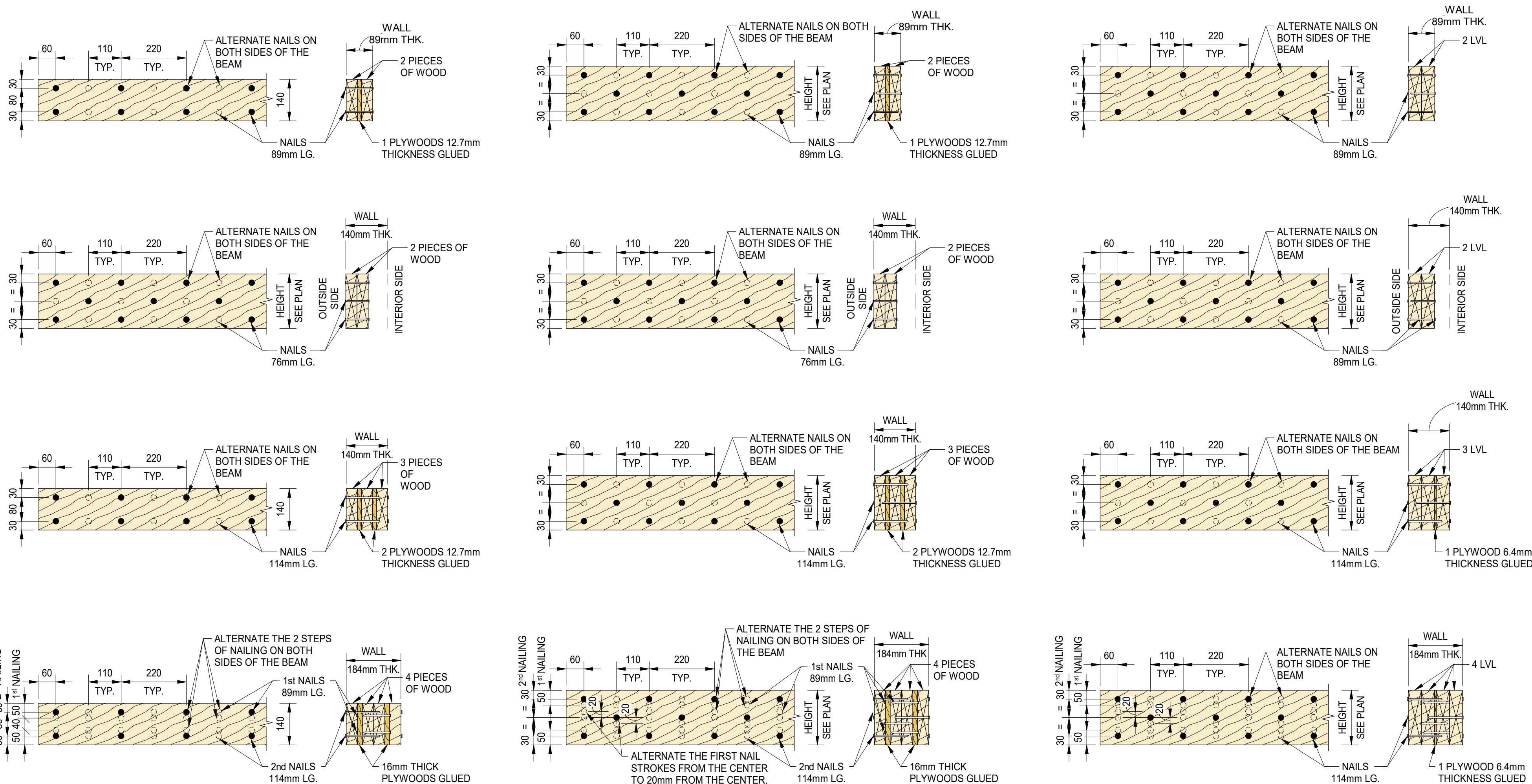
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SHEET No.:

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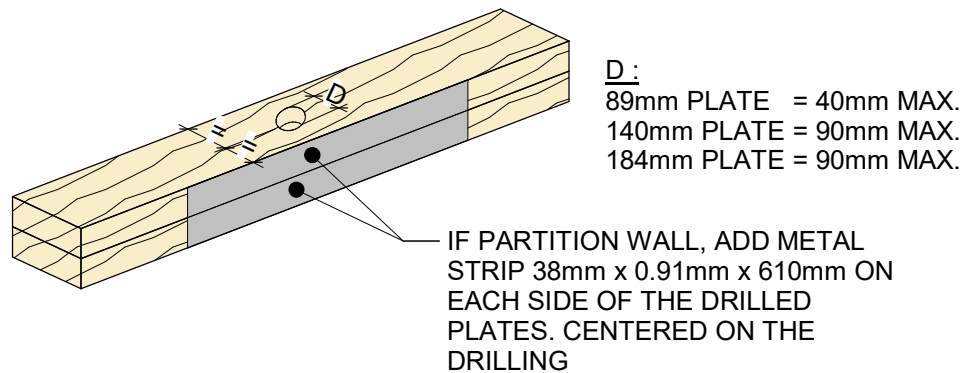
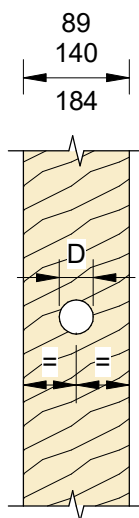
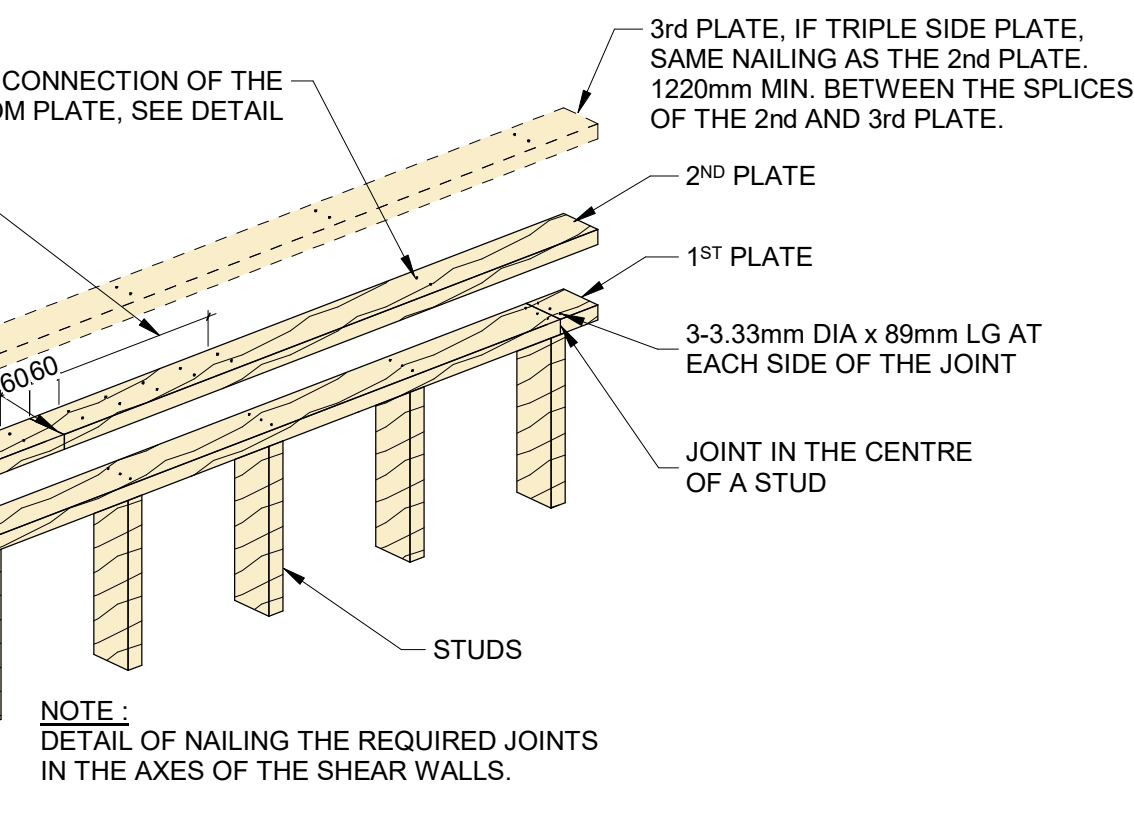
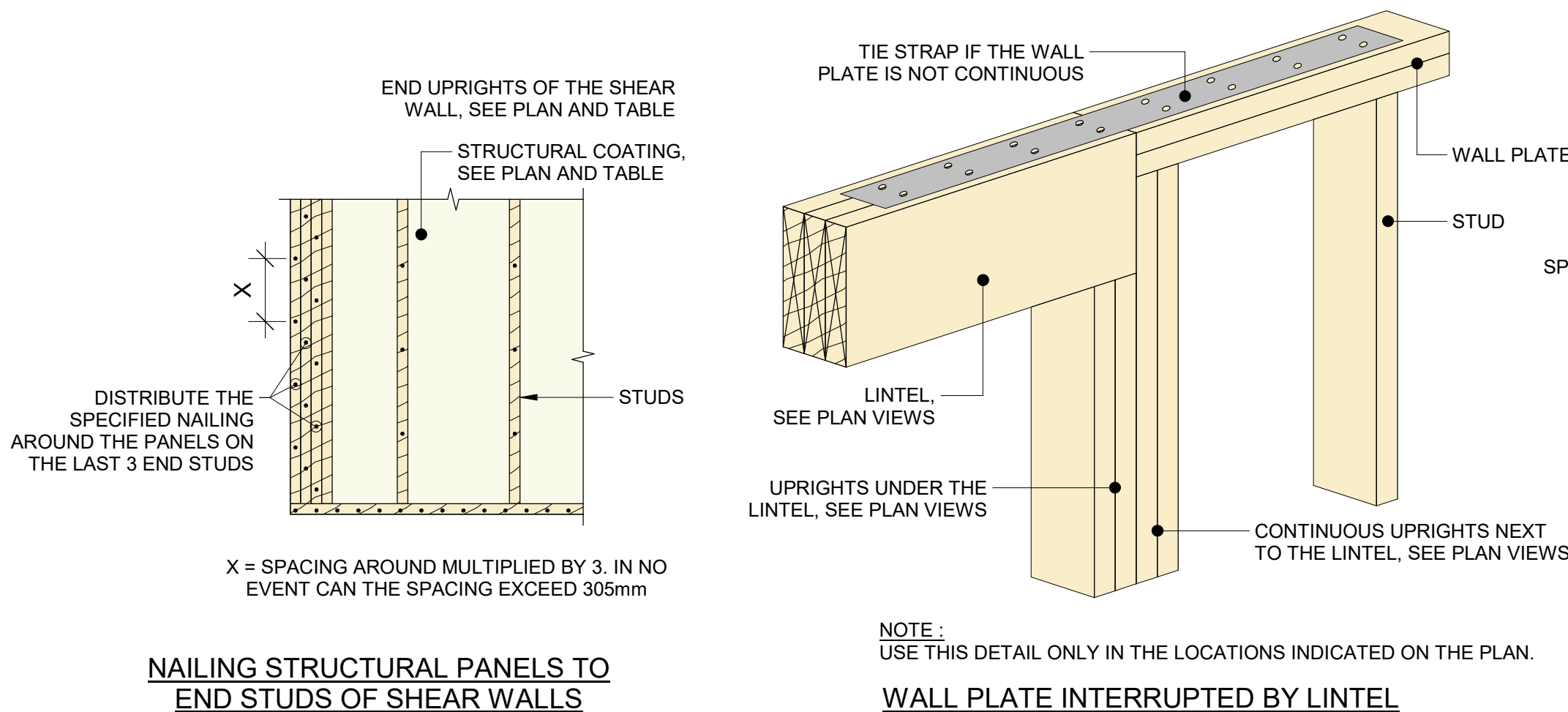
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COLUMN NAILING PATTERN (SPF)

1 TYP. DETAIL - LINTELS
S003 SCALE: 1 : 10

2 TYP. DETAIL
S003 SCALE: 1 : 10



- NOTES:
1. ONLY ONE DRILLING PER STUD IS ALLOWED.
 2. THE DRILLING MUST BE CIRCULAR.
 3. THE DRILLING MUST BE CENTERED IN THE STUD.
 4. A MAXIMUM OF 2 CONSECUTIVE STUDS MAY BE DRILLED.
 5. NO DRILLING IS ALLOWED IN THE END STUDS OF SHEAR WALLS OR IN THE STUDS SURROUNDING THE OPENINGS.

- NOTES:
1. HOLES MUST BE CIRCULAR.
 2. HOLES MUST BE CENTERED IN THE RAILS AND SILLS.
 3. MINIMUM 3D BETWEEN HOLES.

3 TYP. DETAIL
S003 SCALE: 1 : 20

4 TYP. DETAIL
S003 SCALE: 1 : 10

5 TYP. DETAIL
S003 SCALE: 1 : 20

6 TYP. DETAIL
S003 SCALE: 1 : 10

7 TYP. DETAIL
S003 SCALE: 1 : 10

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DESIGNED BY
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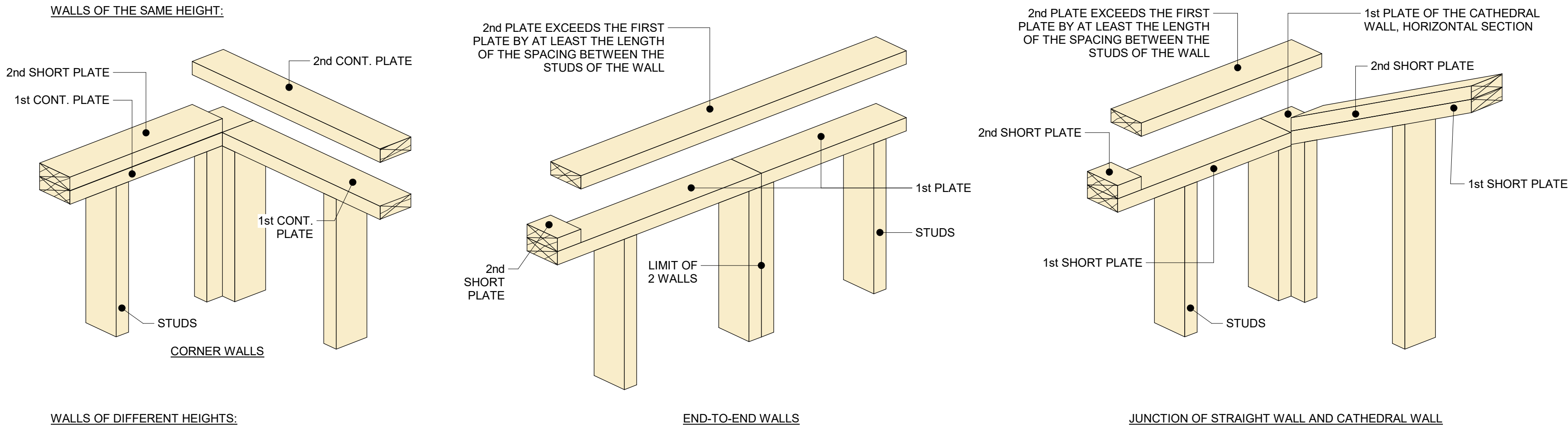
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SHEET TITLE:
TYPICAL DETAILS - WALL

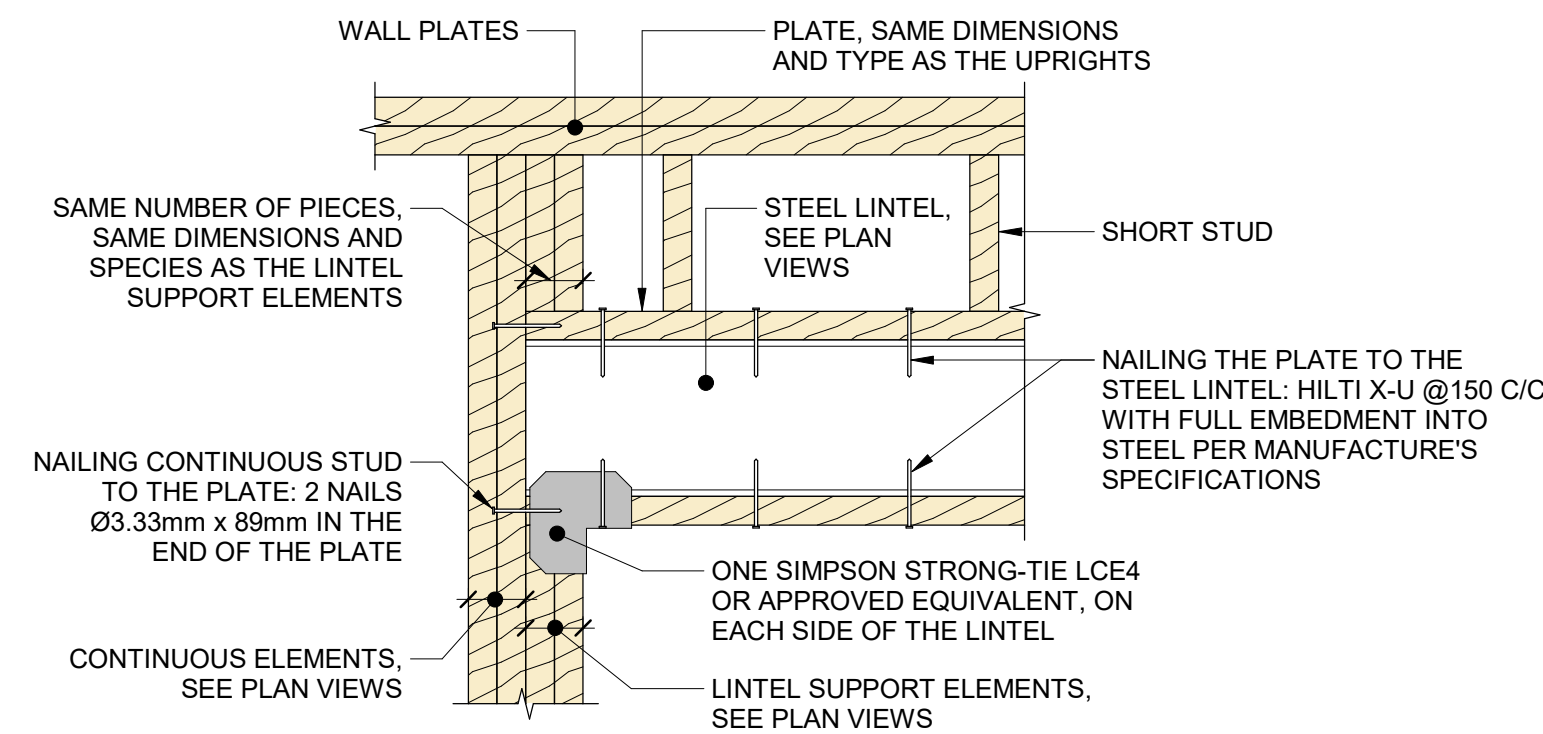
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DRAFTER:	K.L./E.E.
DESIGNER:	B.S.
APPROVER:	S.Y.
PROJECT No:	Z0020853
SHEET No:	3 of 13
SCALE:	AS NOTED
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CHECKER:	S.Y.
DRAWING No:	S003

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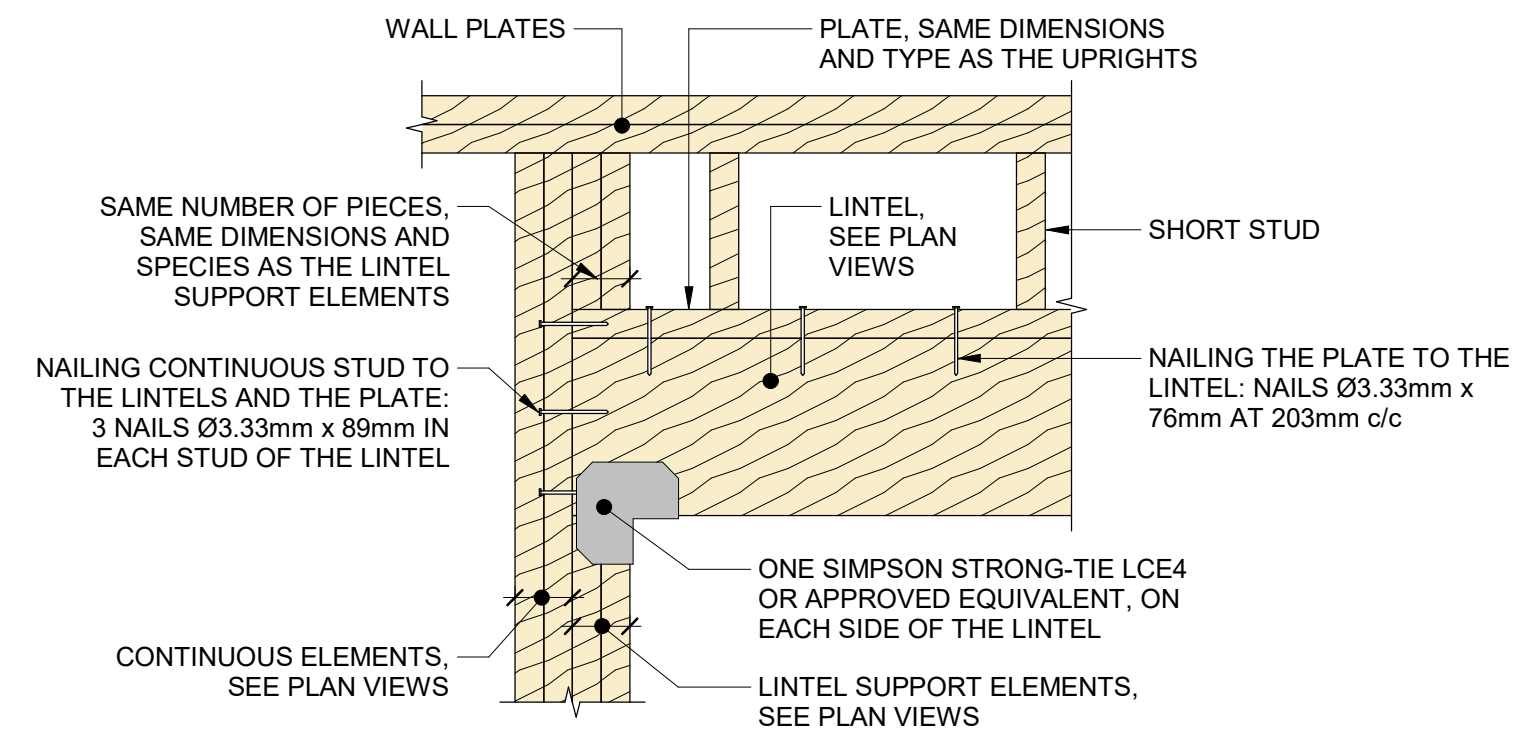


1 TYP. DETAIL
S004 SCALE: 1 : 10



STEEL LINTEL ASSEMBLY WITH FASTENERS

3 TYP. DETAIL
S004 SCALE: 1 : 10



LINTEL ASSEMBLY WITH FASTENERS

2 TYP. DETAIL
S004 SCALE: 1 : 10

WOOD SHEARWALL SCHEDULE					
MARK	APPROX. LENGTH (m)	END ANCHORS	SHEATHING	PERIMETER SHEATHING NAILS	BOTTOM PLATE ANCHORS
SW-1	VARIES	SIMPSON STRONG TIE 2 x HDU11-SDS2.5 75 mm C/C 1"Ø ANCHOR BOLTS x 22 1/4" LONG	12.5mm (1 SIDE)	75 mm @150 mm C/C	16 mm DIA @600 mm C/C
SW-2	VARIES	SIMPSON STRONG TIE HDU11-SDS2.5 1"Ø ANCHOR BOLTS x 22 1/4" LONG	12.5mm (1 SIDE)	75 mm @150 mm C/C	16 mm DIA @600 mm C/C
SW-3	VARIES	SIMPSON STRONG TIE HDU8-SDS2.5 7/8"Ø ANCHOR BOLTS x 16 5/8" LONG	12.5mm (1 SIDE)	75 mm @150 mm C/C	16 mm DIA @600 mm C/C
SW-4	VARIES	SIMPSON STRONG TIE HDU4-SDS2.5 5/8"Ø ANCHOR BOLTS x 10 15/16" LONG	12.5mm (1 SIDE)	75 mm @150 mm C/C	16 mm DIA @600 mm C/C
SW-5	VARIES	NOT REQUIRED	12.5mm (1 SIDE)	75 mm @150 mm C/C	16 mm DIA @600 mm C/C
NOTES: 1. ALL SHEATHING JOINTS TO HAVE PERIMETER BLOCKING FOR NAILING AS SPECIFIED. STANDARD NAILING USE 75mm NAILS @ 150mm AT PERIMETER AND 300mm O.C. FOR OTHER BLOCKING U.N.O. 2. SHEATHING TO BE PLYWOOD. 3. HOLD-DOWN ANCHORS SHOWN ARE BY SIMPSON. U/N. SEE MANUFACTURES INSTRUCTIONS FOR INSTALLATION. 4. STD. BOTTOM PLATE ANCHORS ARE 12Ø @ 1200 U/N 5. STUDS ARE SPF No.3 GRADE 5.					

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No.	Date	Description	By

STAMPS:

DESIGNED BY

APPROVED BY

LICENSED PROFESSIONAL ENGINEER
S. L. YOUNG
100212163
07/30/2026
PROVINCE OF ONTARIO

CONSULTANT(S):

ENGINEER:

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CLIENT:

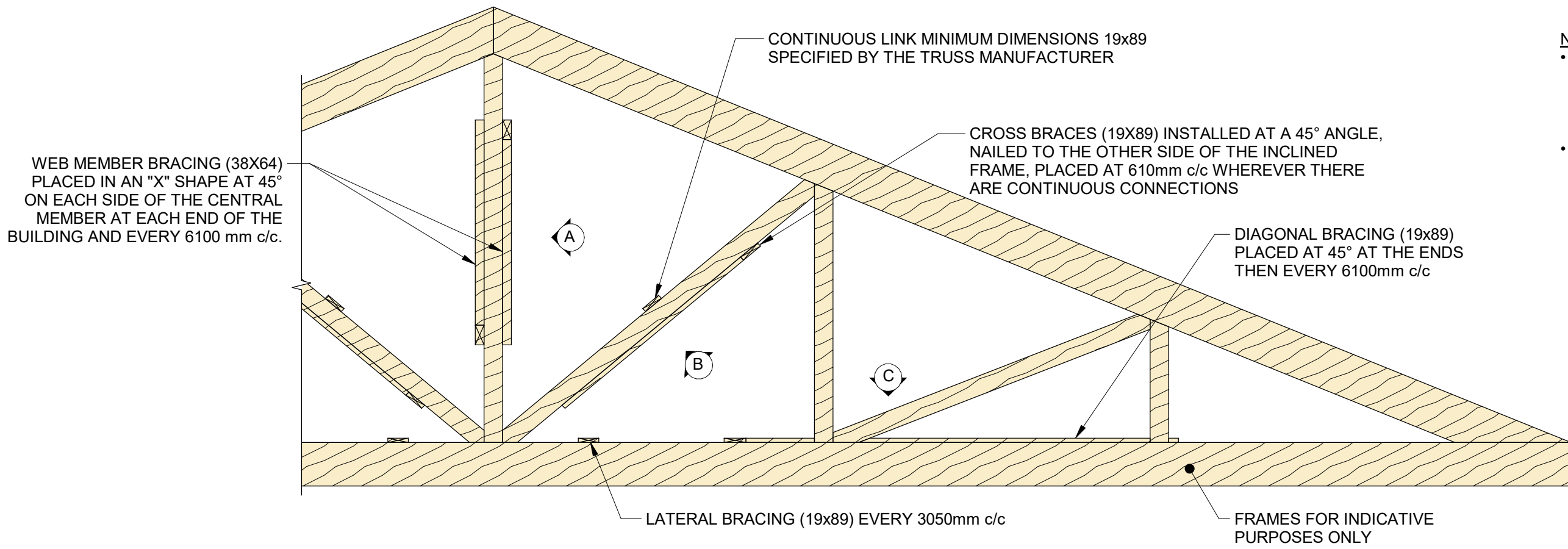
PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
TYPICAL DETAILS - WALL

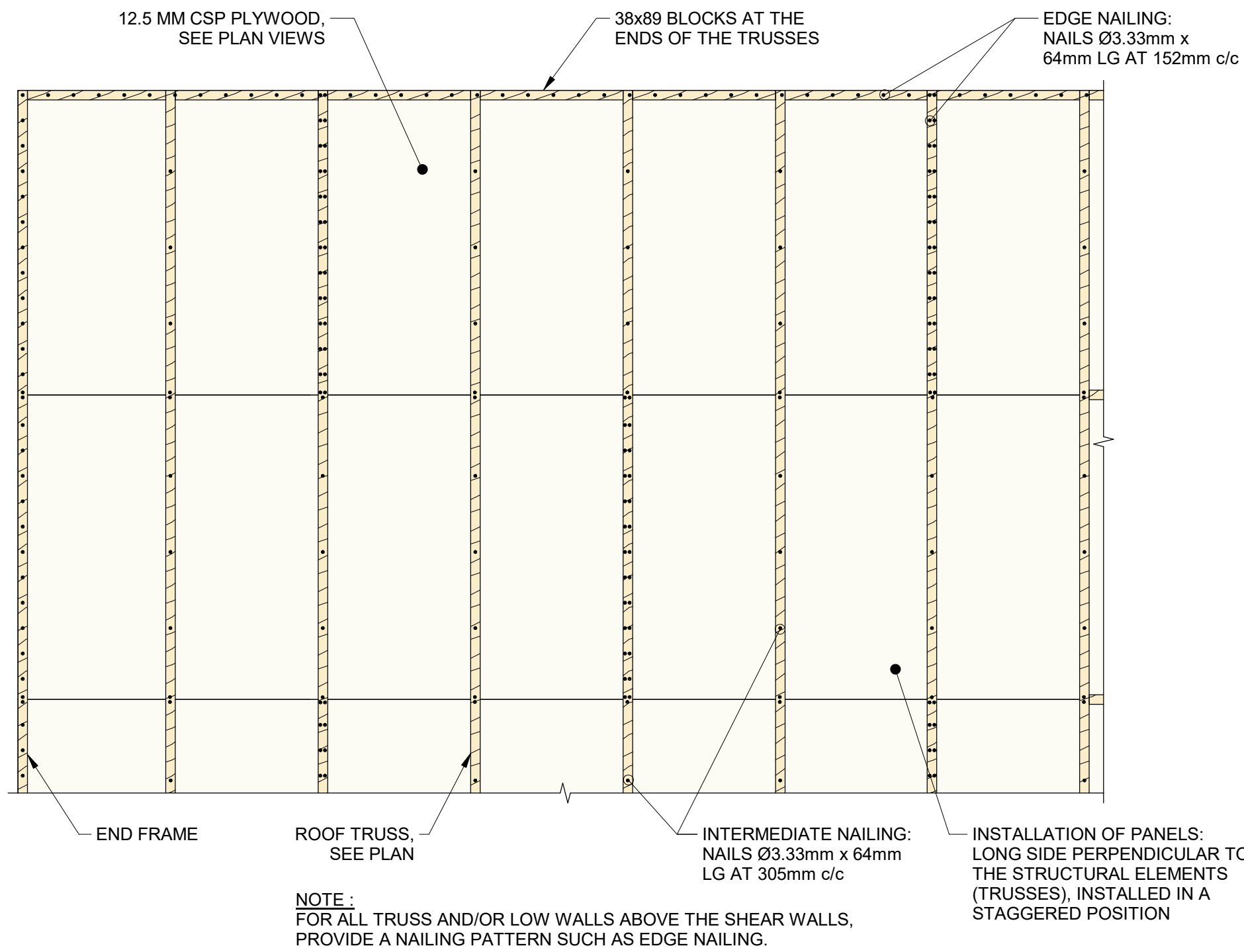
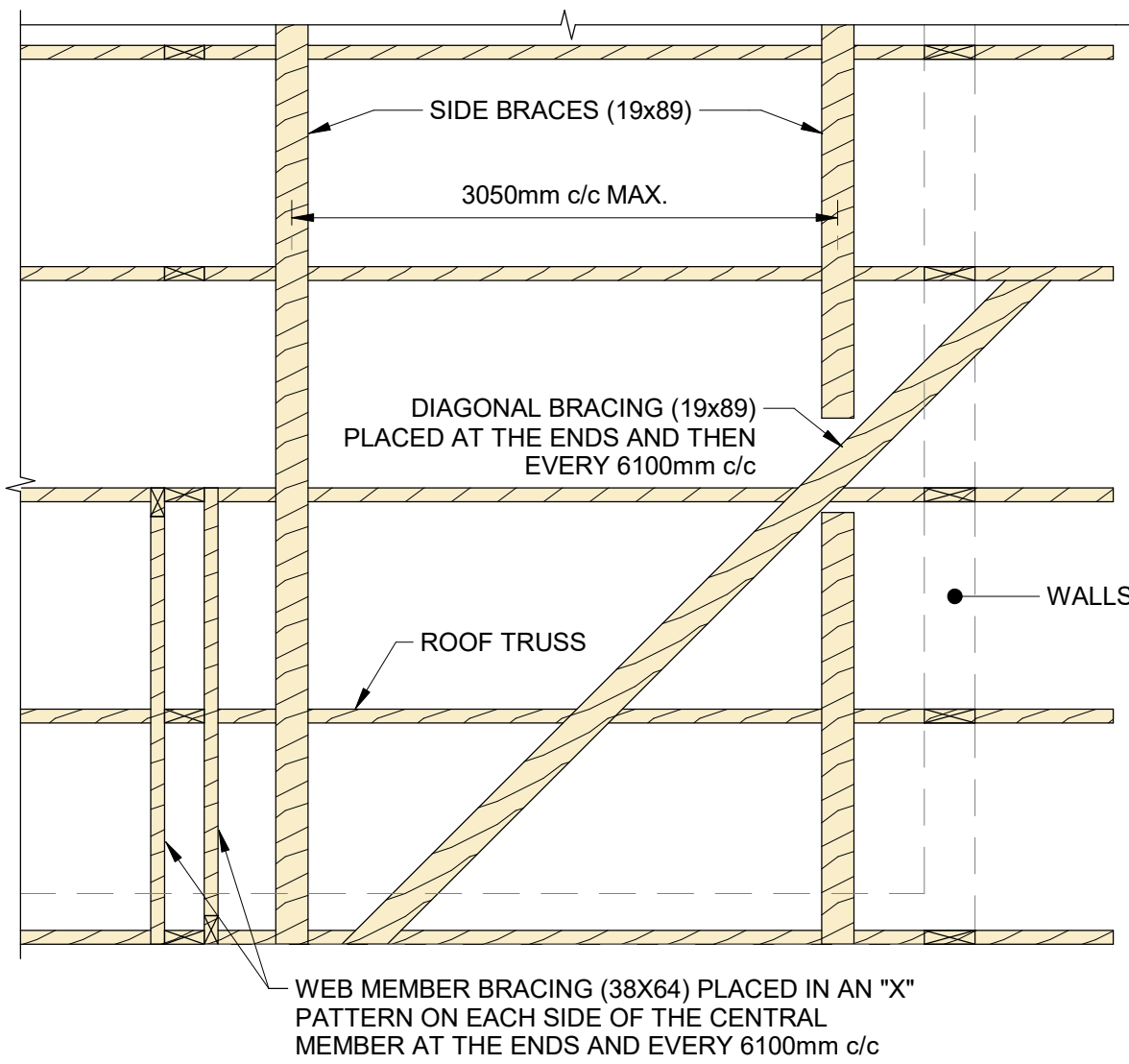
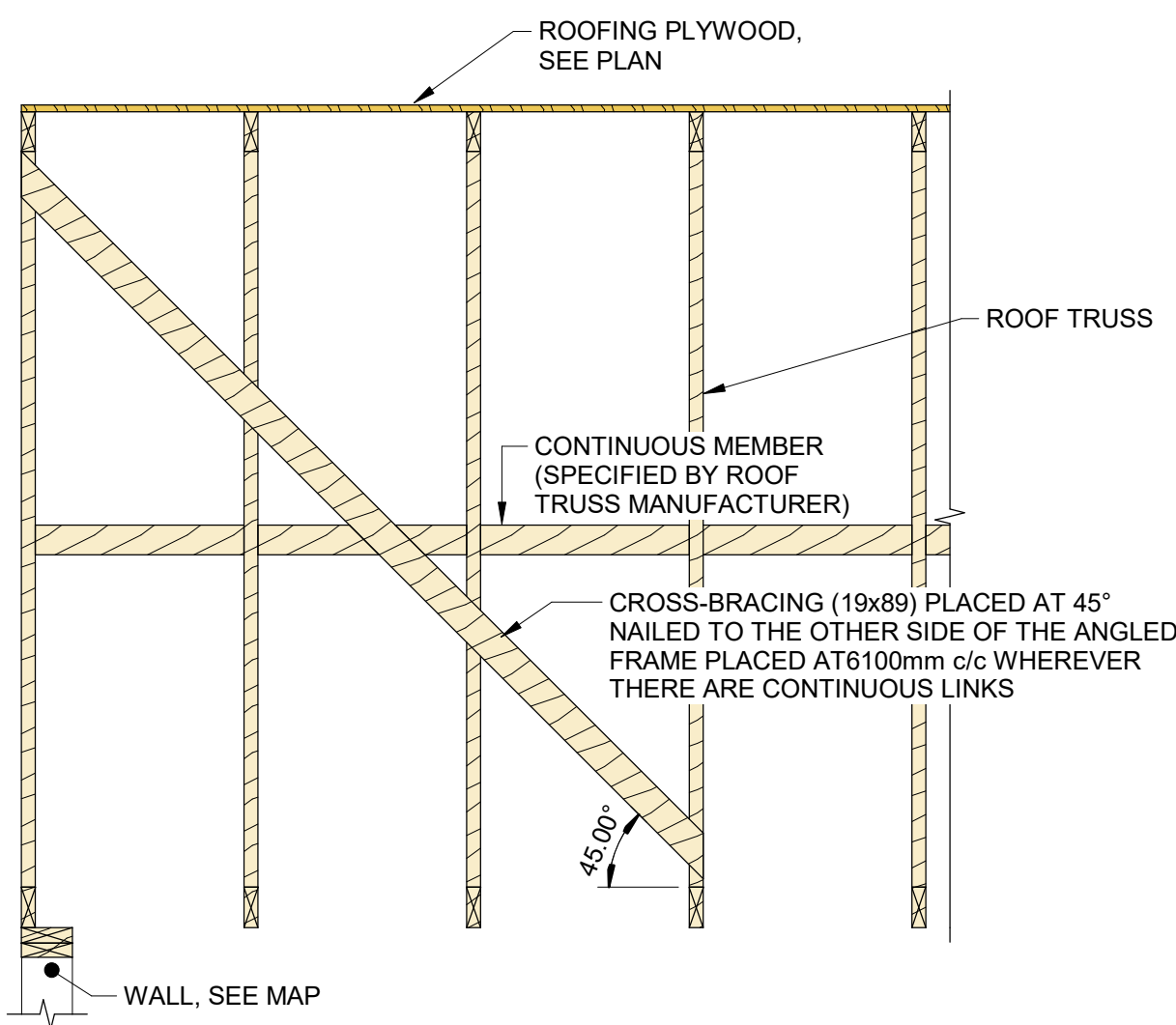
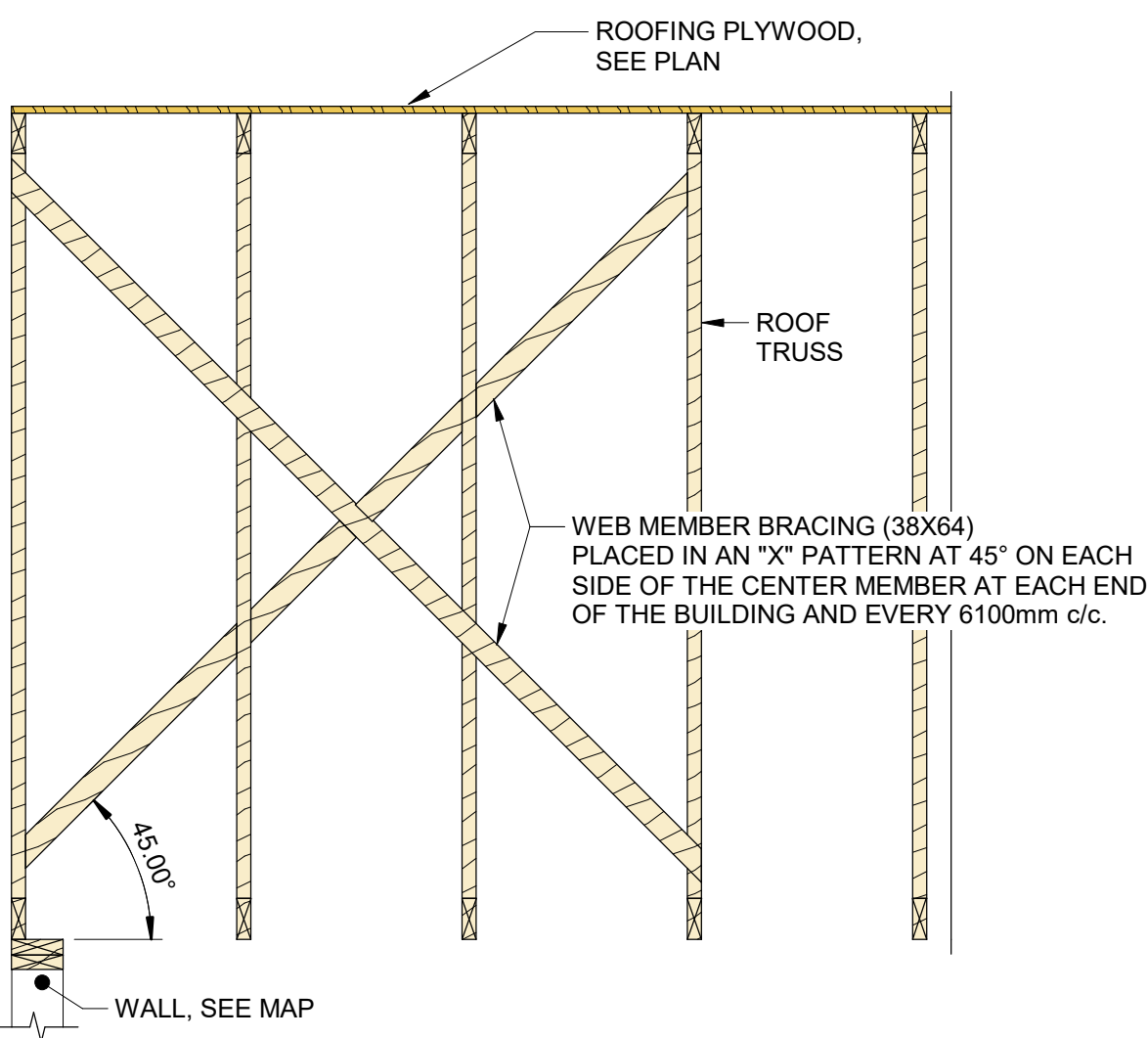
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DESIGNER: B.S.	DATE: 2026-07-30
APPROVER: S.Y.	CHECKER: S.Y.
PROJECT No.: Z0020853	DRAWING No.: S004
SHEET No.: 4 of 13	

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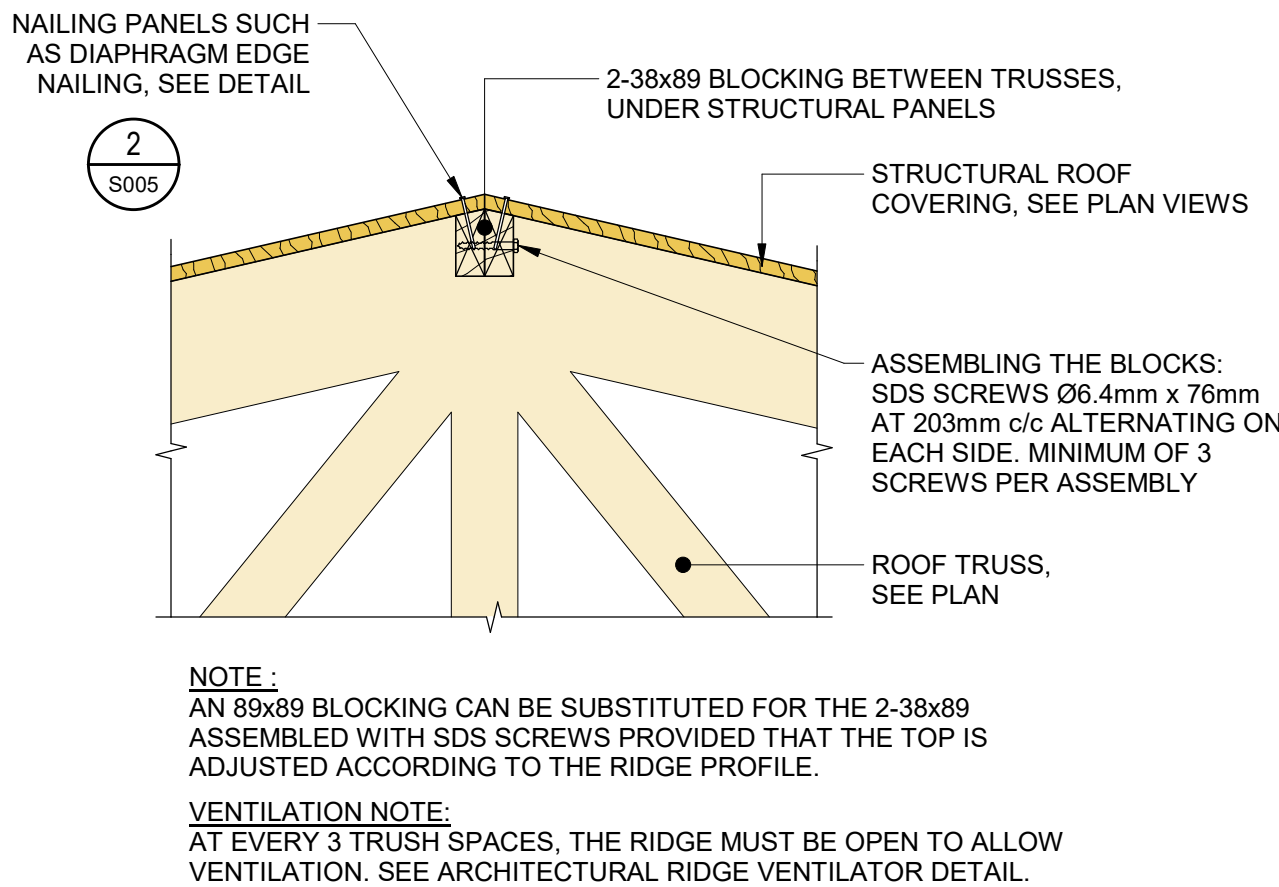
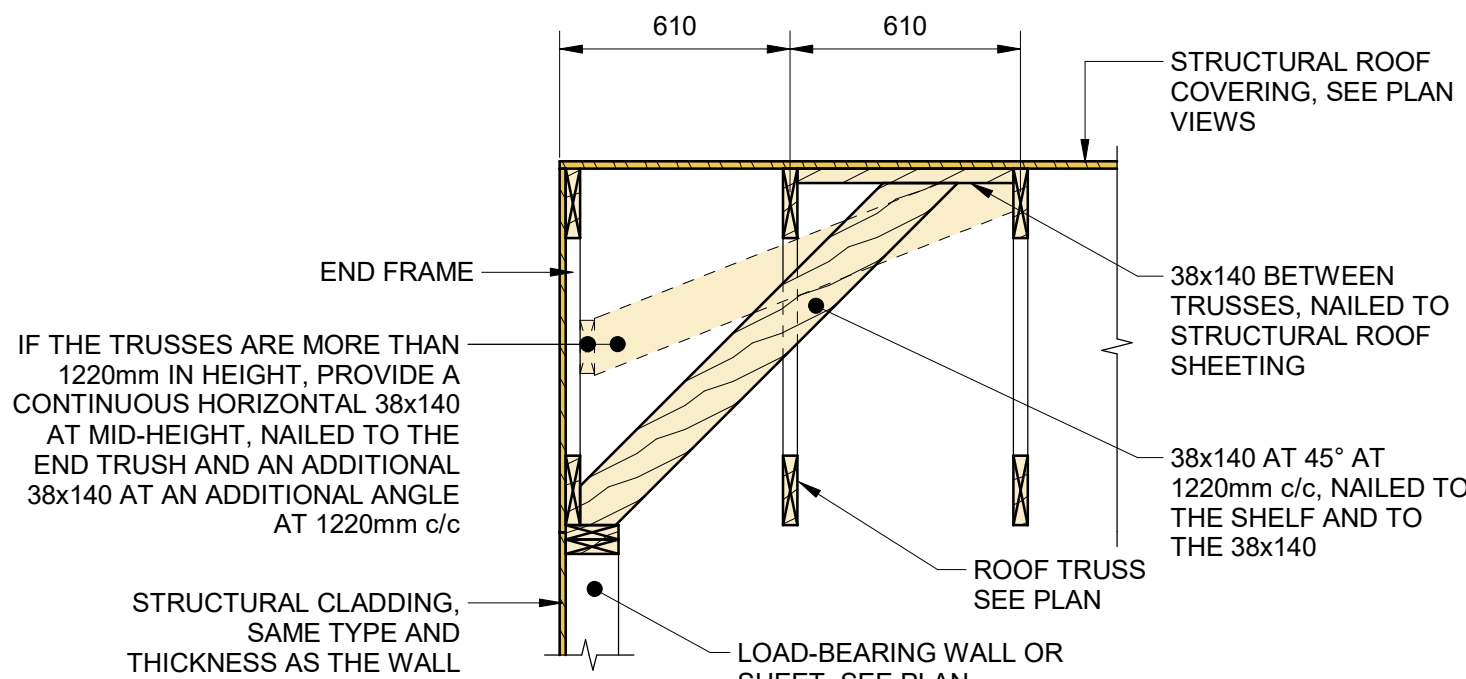
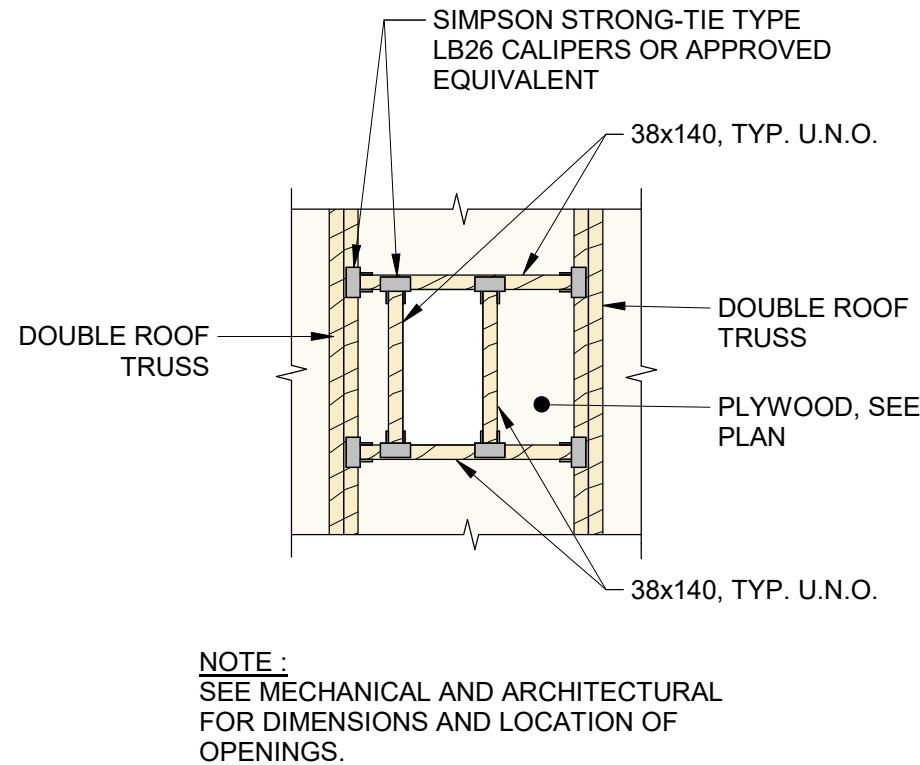


- NOTES:**
- BEFORE INSTALLING THE PERMANENT BRACING INDICATED IN THE DETAILS, THE CONTRACTOR MUST TEMPORARILY BRACING THE ROOF TRUS ACCORDING TO THE METHODS PRESCRIBED BY THE "ASSOCIATION OF WOOD STRUCTURE MANUFACTURERS"
 - FOLLOW ALL ROOF TRUSH MANUFACTURER'S RECOMMENDATIONS.



1 TYP. DETAIL
S005 SCALE: 1 : 20

2 TYP. DETAIL
S005 SCALE: 1 : 20



3 TYP. DETAIL
S005 SCALE: 1 : 20

4 TYP. DETAIL
S005 SCALE: 1 : 20

5 TYP. DETAIL
S005 SCALE: 1 : 10

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STAMPS:

DESIGNED BY: *S.L. Young* APPROVED BY: *S.L. Young*

CONSULTANT(S):

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www.cima.ca

PROJECT NAME: **Ganaraska Forest Center - Auxiliary Building**

SHEET TITLE: **TYPICAL DETAILS - ROOF**

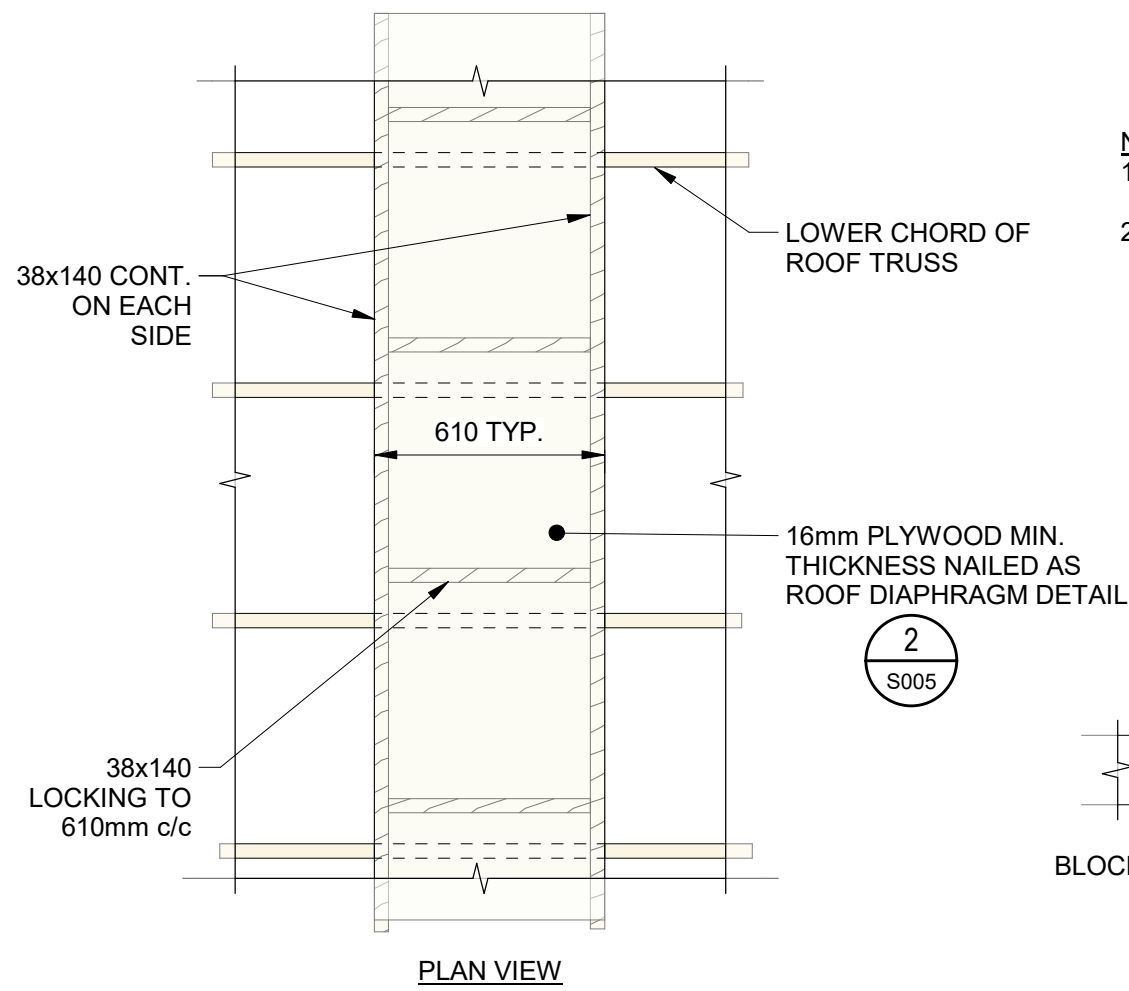
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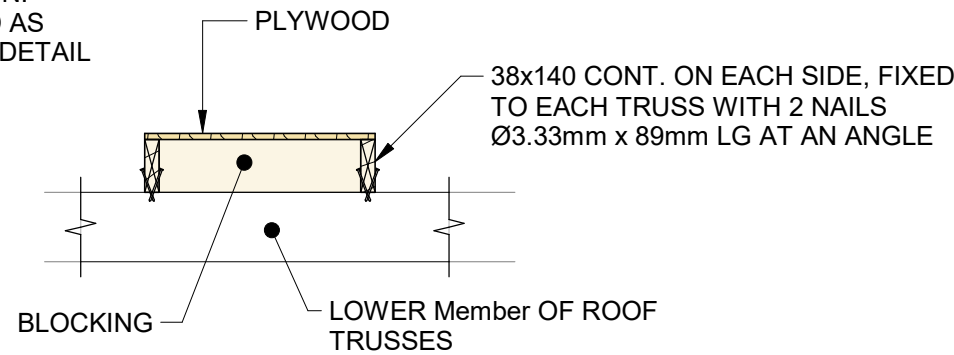
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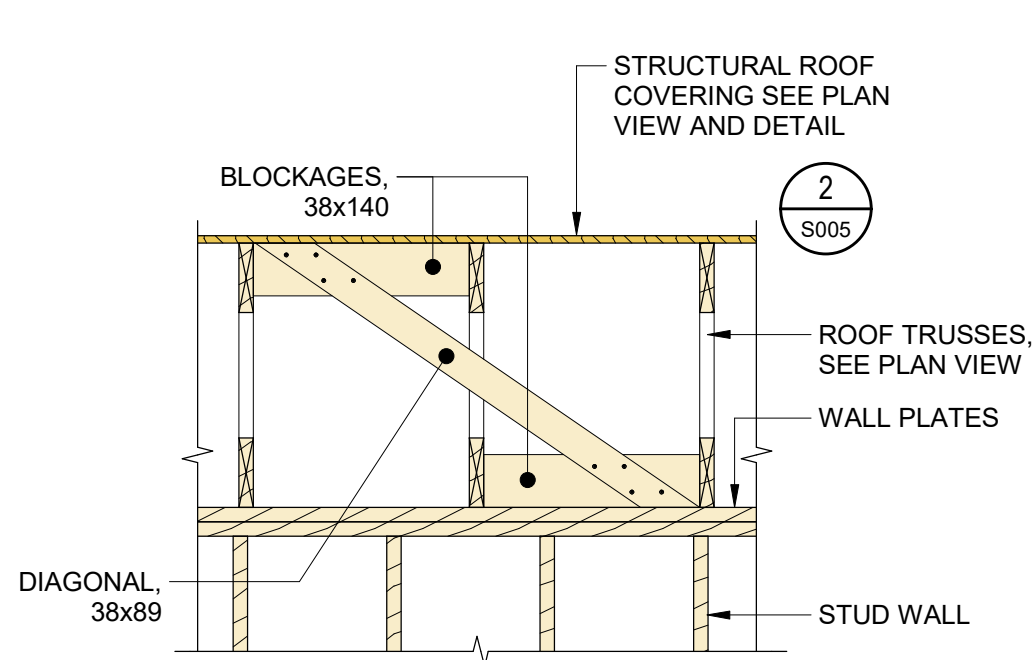


NOTES:
1. APPROXIMATE LOCATION, SEE ROOF PLAN VIEW.
2. COORDINATE THE EXACT POSITION WITH THE ROOF TRUSS MANUFACTURER AND ELECTROMECHANICAL EQUIPMENT.



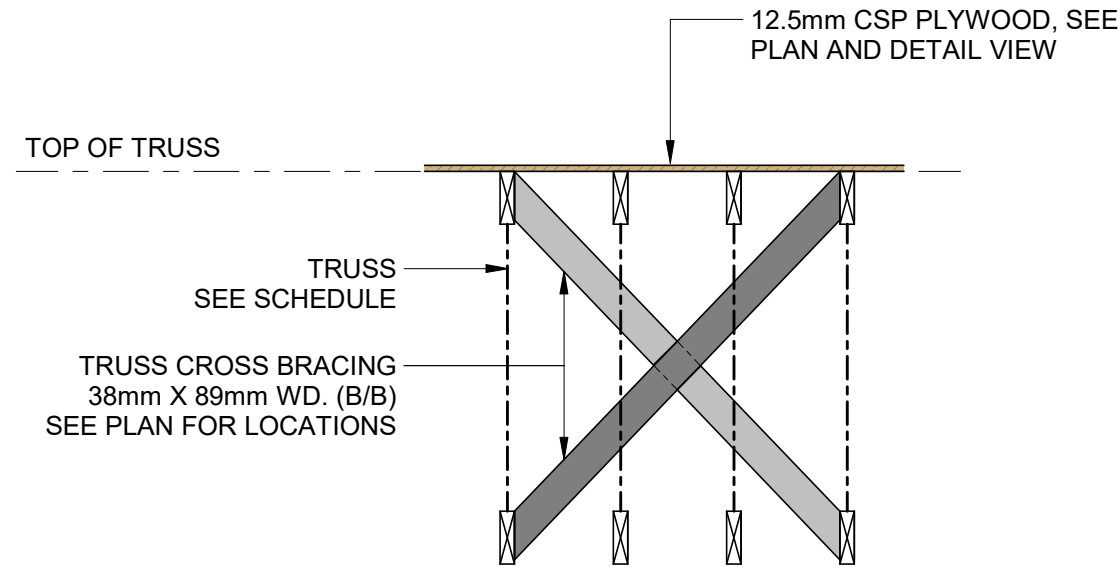
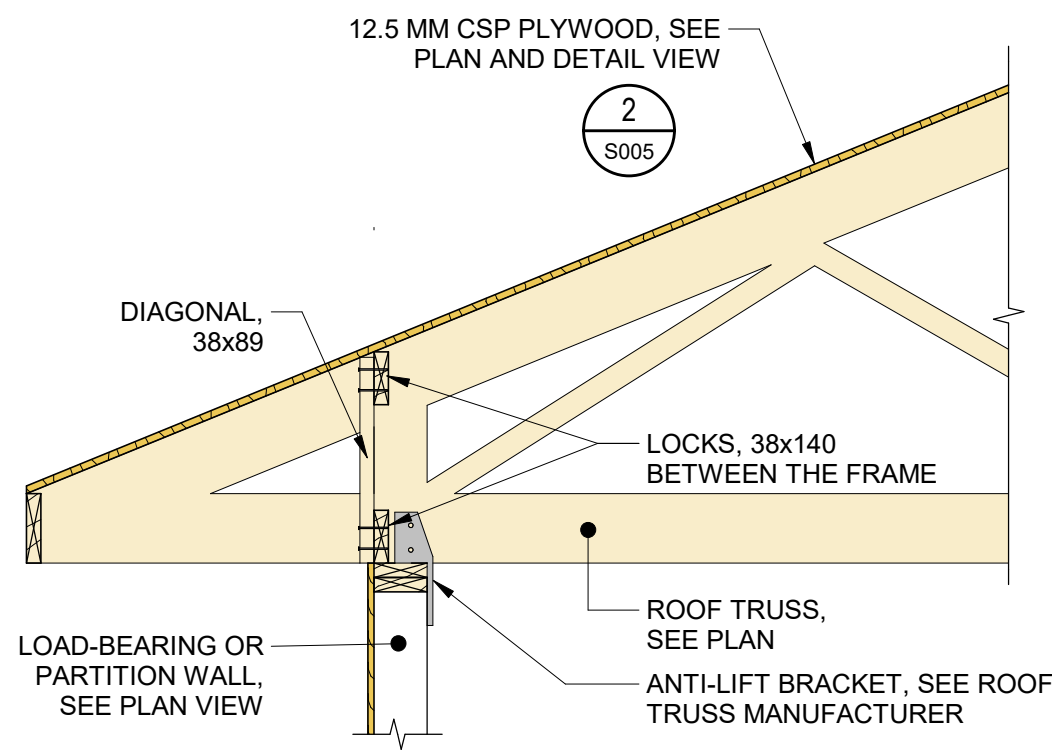
SERVICE SIDEWALK IN THE ATTIC

1 TYP. DETAIL
S006 SCALE: 1 : 20



BRACING OF ROOF TRUSS TO SUPPORT

2 TYP. DETAIL
S006 SCALE: 1 : 20



TRUSS CROSS BRACING

3 TYP. DETAIL - TRUSS CROSS BRACING
S006 SCALE: 1 : 20

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1	2026-05-22	ISSUED FOR 90% REVIEW	S.Y.
0	2026-05-20	ISSUED FOR PERMIT	S.Y.
No.	Date	Description	By

STAMPE:

DESIGNED BY

APPROVED BY

CONSULTANT(S):

ENGINEER:

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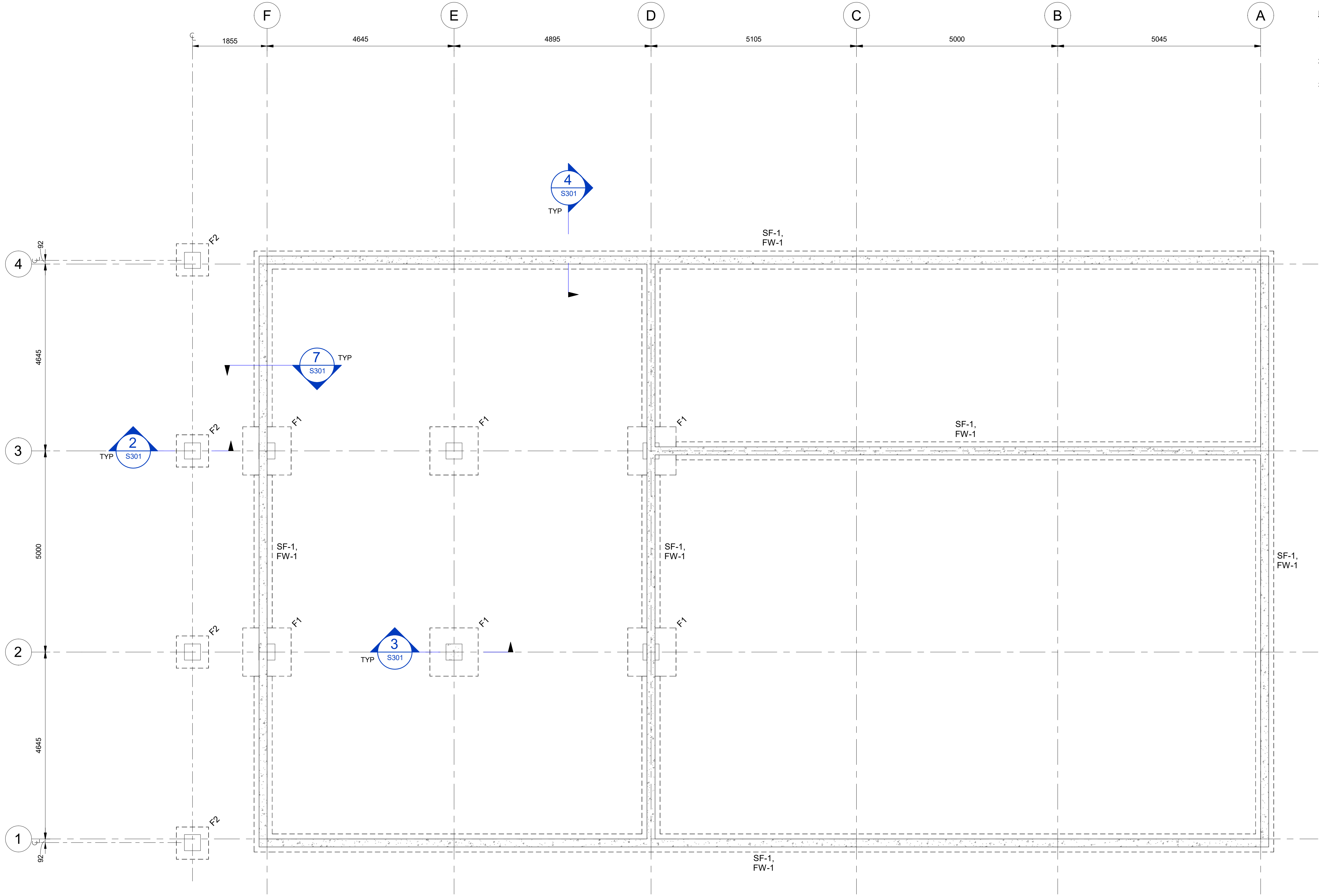
CLIENT:

PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
TYPICAL DETAILS - ROOF

DISCIPLINE: STRUCTURAL			
DRAFTER:	K.L. / E.E.	SCALE:	AS NOTED
DESIGNER:	B.S.	DATE:	2026-07-30
APPROVER:	S.Y.	CHECKER:	S.Y.
PROJECT No:	Z0020853	DRAWING No:	S006
SHEET No:	6 of 13		

PRINT DATE: 2026-07-29 9:44:48 AM
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- NOTES:**
- FOUNDATIONS HAVE BEEN DESIGNED FOR 144 kPa SLS. GEOTECHNICAL ENGINEER TO CONFIRM BEARING CAPACITY PRIOR TO PLACING FOOTINGS.
 - FOUNDATIONS AND FOOTINGS 1.20 m BELOW GRADE MINIMUM.
 - SEE ARCH FOR INSULATION.

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0	2026-05-20	ISSUED FOR PERMIT	S.Y.
No.	Date	Description	By

STAMPS:

DESIGNED BY

APPROVED BY

CONSULTANT(S):

PROJECT NORTH

ENGINEER:

CIMA+

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CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

FOUNDATION PLAN

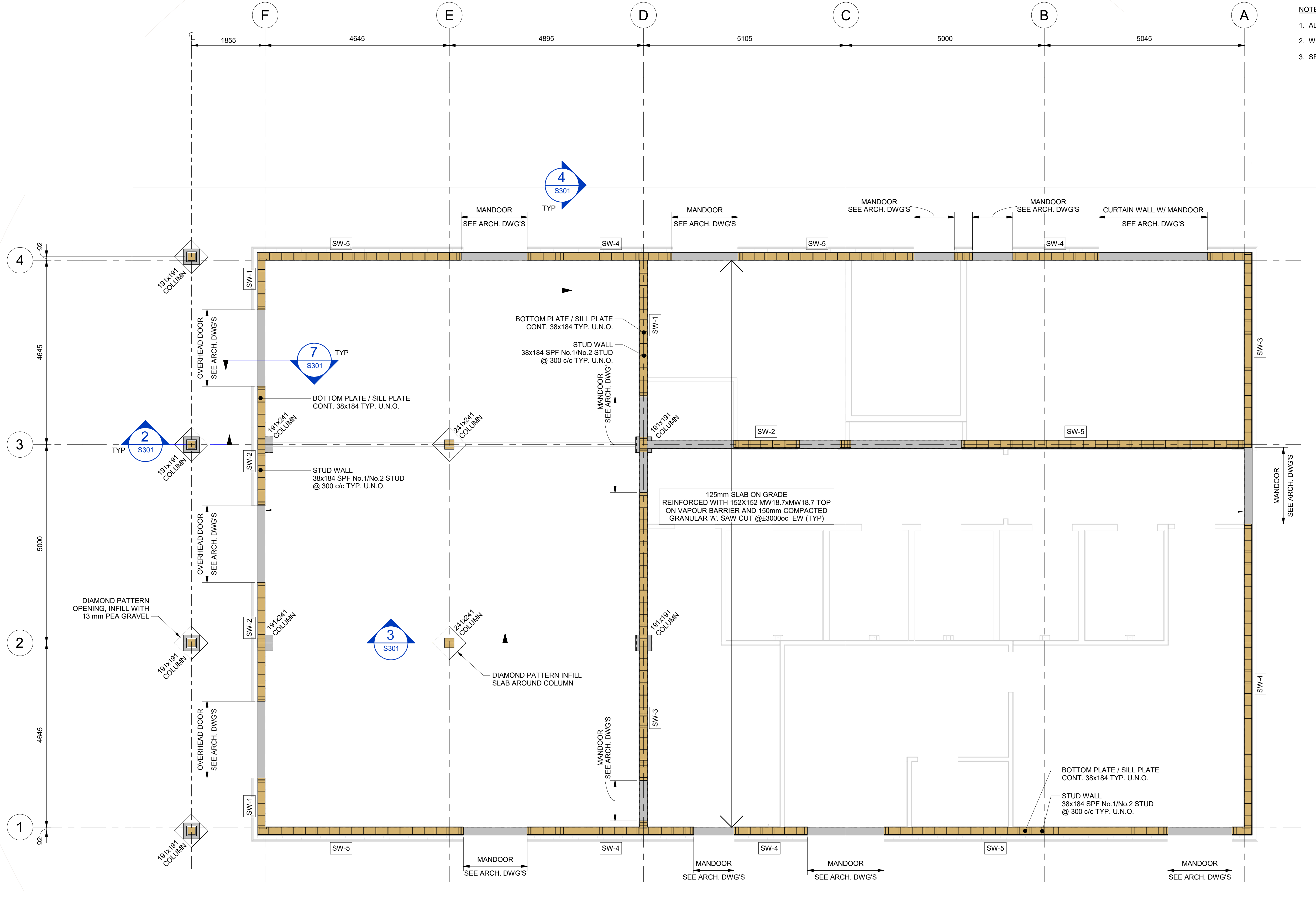
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DRAFTER:	K.L. / K.D.	SCALE:	AS NOTED
DESIGNER:	B.S.	DATE:	2026-07-30
APPROVER:	S.Y.	CHECKER:	S.Y.
PROJECT No.:	Z0020853	DRAWING No.:	S101
SHEET No.:	7 of 13		

1 FOUNDATION PLAN
SCALE: 1 : 50

- FOUNDATION SIZE:**
- F1:**
- FOOTING: 1200x1200x475, SEE SECTION FOR REINFORCING
 - PIER: 400x400, SEE SECTION FOR REINFORCING
- F2:**
- FOOTING: 800x800x475, SEE SECTION FOR REINFORCING
 - PIER: 400x400, SEE SECTION FOR REINFORCING
- STRIP FOOTING:**
- SF-1: 450x200, SEE SECTION FOR REINFORCING
- FOUNDATION WALL:**
- FW-1: 200mm, SEE SECTION FOR REINFORCING

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- NOTES:
1. ALL WOOD COLUMNS TO BE HEM-FIR No.1.
 2. WOOD SHEARWALL SCHEDULE SEE DWG S004.
 3. SEE ARCH FOR BELOW SLAB INSULATION.

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No.	Date	Description	By
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1	2026-05-22	ISSUED FOR 90% REVIEW	S.Y.
0	2026-05-20	ISSUED FOR PERMIT	S.Y.

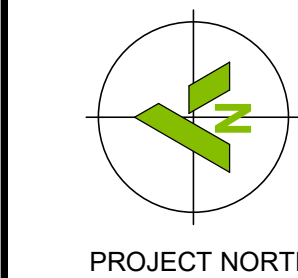
STAMP:



DESIGNED BY

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CONSULTANT(S)



ENGINEER:



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CLIENT:

PROJECT NAME:

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SHEET TITLE:

GROUND FLOOR SLAB PLAN

DISCIPLINE:

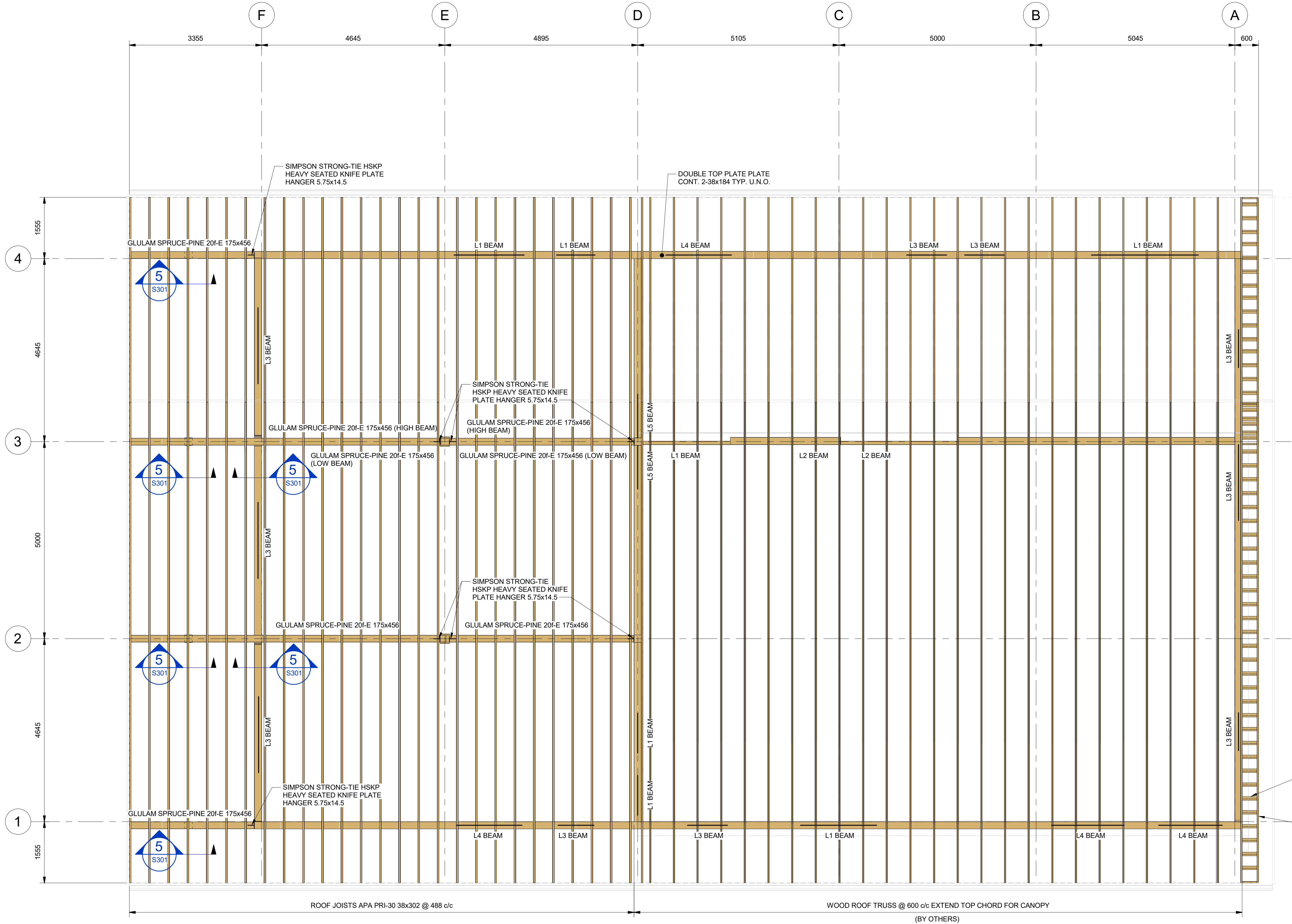
STRUCTURAL

DRAFTER:	K.L. / K.D.	SCALE:	AS NOTED
DESIGNER:	B.S.	DATE:	2026-07-30
APPROVER:	S.Y.	CHECKER:	S.Y.
PROJECT No:	Z0020853	DRAWING No:	S102
SHEET No:	8 of 13		

1 GROUND FLOOR SLAB & WALLS PLAN
S102 SCALE: 1 : 50

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LINTEL SCHEDULE	
L1:	W150x22 STEEL BEAM
L2:	W200x27 STEEL BEAM
L3:	BUILTUP SPF No.1/No.2, 3-38x140 mm BEAM
L4:	BUILTUP SPF No.1/No.2, 4-38x235 mm BEAM
L5:	BUILTUP SPF No.1/No.2, 2-38x89 mm BEAM

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0	2026-05-20	ISSUED FOR PERMIT	S.Y.

STAMPS:

DESIGNED BY

APPROVED BY

CONSULTANT(S):

PROJECT NORTH

ENGINEER:

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CLIENT:

PROJECT NAME:

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SHEET TITLE:

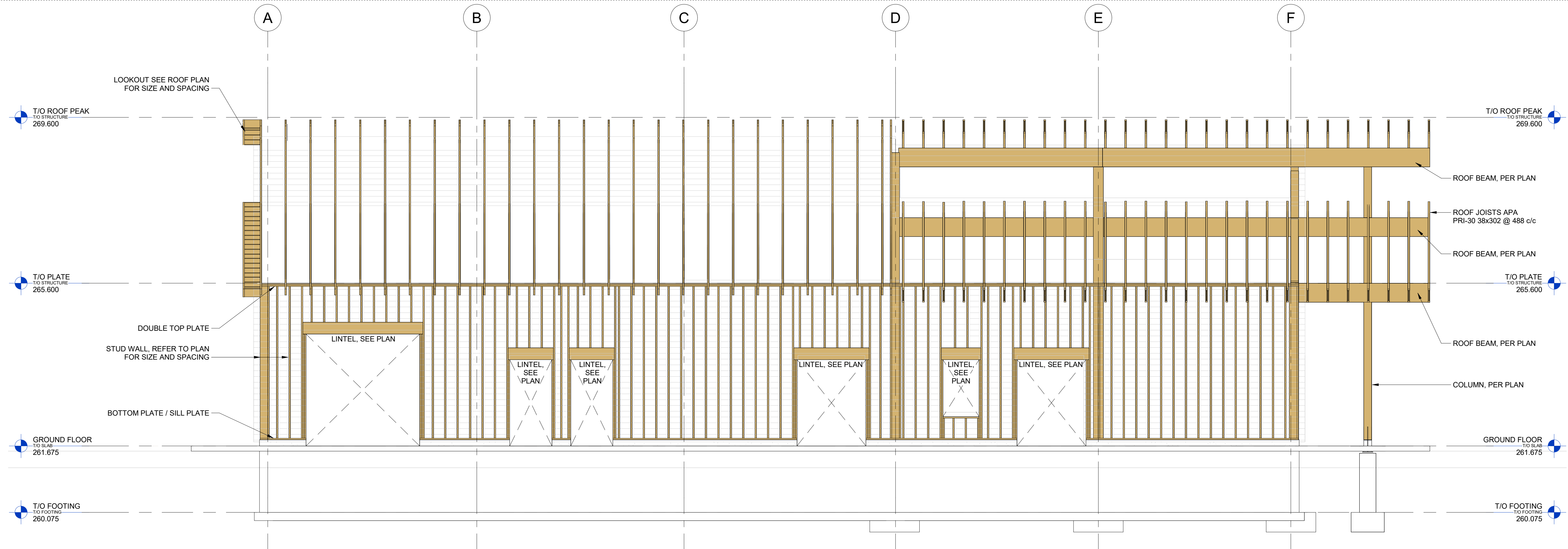
ROOF FRAMING PLAN

DISCIPLINE:	
STRUCTURAL	
DRAFTER:	SCALE:
K.L. / K.D.	AS NOTED
DESIGNER:	DATE:
B.S.	2026-07-30
APPROVER:	CHECKER:
S.Y.	S.Y.
PROJECT No:	DRAWING No:
Z0020853	S103
SHEET No:	
9 of 13	

ROOF DESIGN LOADS (UNFACTORED):	
DEAD LOAD GRID LINES A TO D	
SHINGLES.....	0.15 kPa
SHEATHING.....	0.10 kPa
JOIST/WOOD FRAMING.....	0.20 kPa
INSULATION.....	0.15 kPa
SUSPENDED CEILING.....	0.10 kPa
MECH AND ELECTRICAL.....	0.25 kPa
TOTAL.....	1.00 kPa
LIVE LOAD (BOTTOM CHORD).....	1.00 kPa
DEAD LOAD GRID LINES D TO F	
SHINGLES.....	0.15 kPa
SHEATHING.....	0.10 kPa
JOIST/WOOD FRAMING.....	0.05 kPa
INSULATION.....	0.15 kPa
SUSPENDED CEILING.....	0.10 kPa
MECH AND ELECTRICAL.....	0.25 kPa
TOTAL.....	0.80 kPa
SNOW LOAD.....	2.6 kPa

1 ROOF FRAMING PLAN

S103 SCALE: 1 : 50

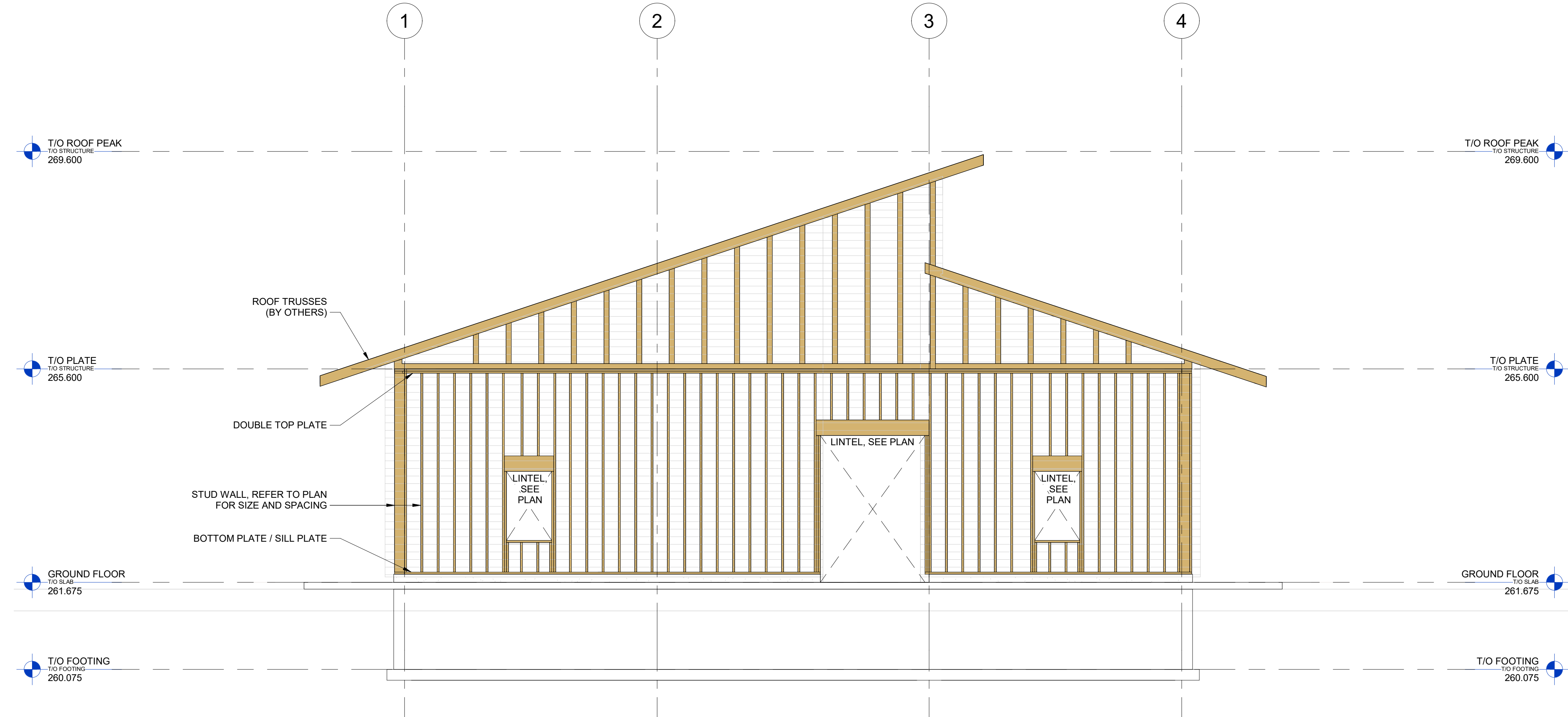


2 EAST ELEVATION - ALONG GRID LINE "4"
S201 SCALE: 1 : 50

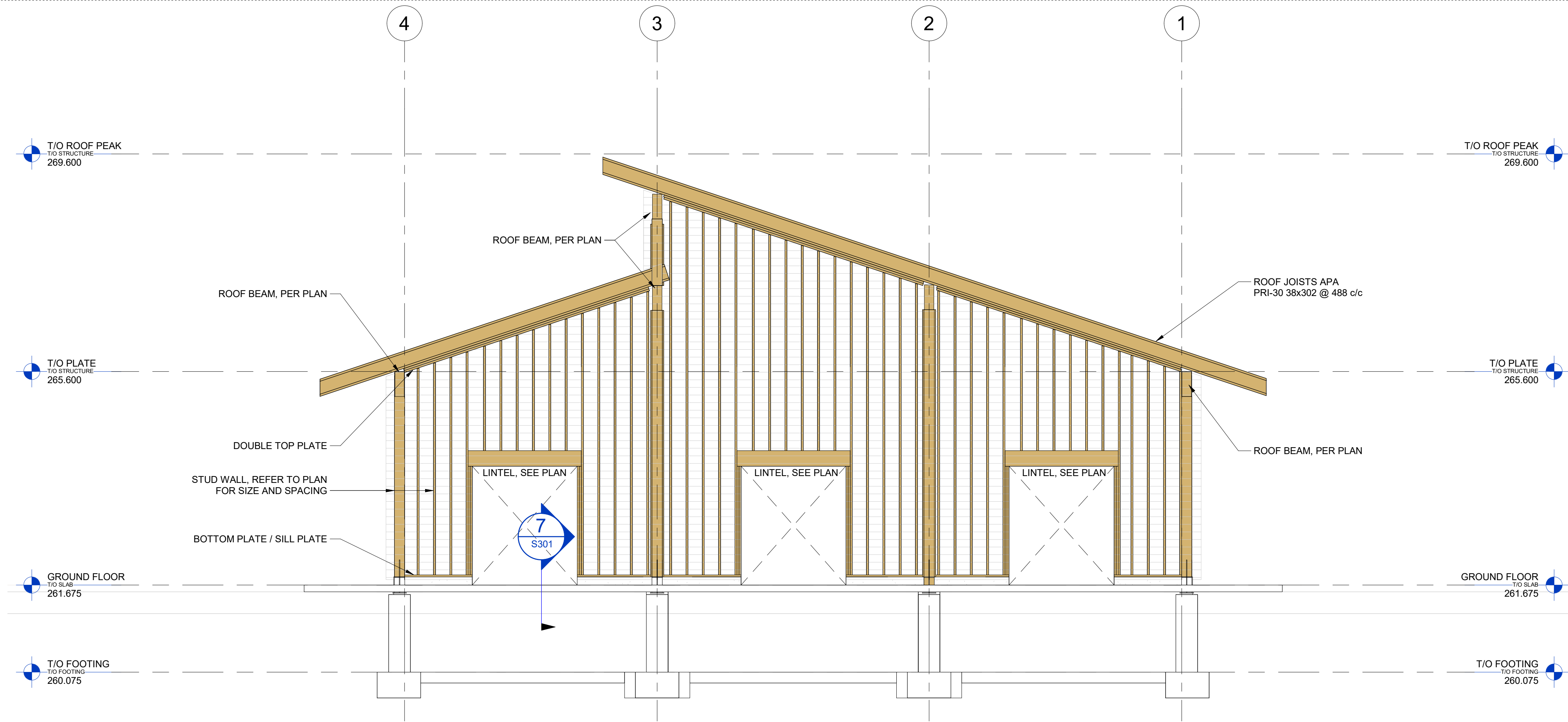
10 of 13

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1 SOUTH ELEVATION - ALONG GRID LINE "A"
S202 SCALE: 1 : 50



2 NORTH ELEVATION - ALONG GRID LINE "F"
S202 SCALE: 1 : 50

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No.	Date	Description	By

STAMPS:



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CONSULTANT(S):

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CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

ELEVATIONS

DISCIPLINE:

STRUCTURAL

DRAFTER: K.L. / K.D.

SCALE: AS NOTED

DESIGNER: B.S.

DATE: 2026-07-30

APPROVER: S.Y.

CHECKER: S.Y.

PROJECT No.: Z0020853

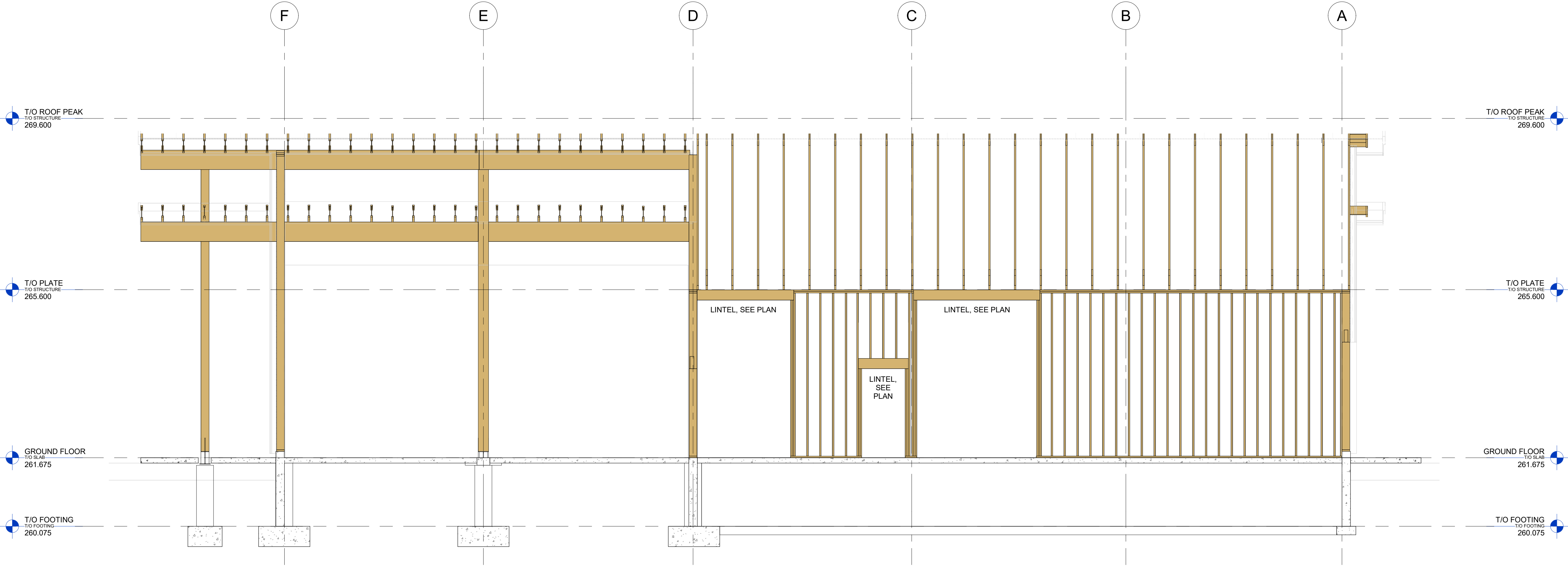
DRAWING No.:

SHEET No.: 11 of 13

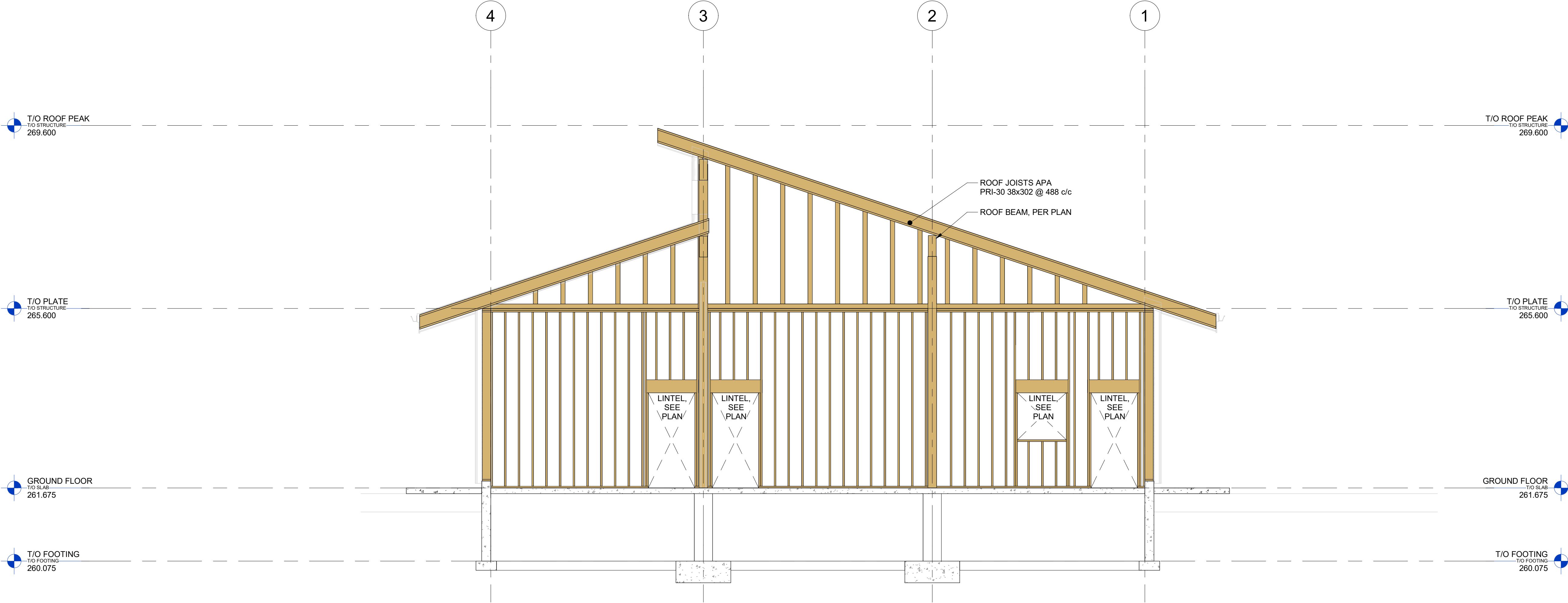
S202

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1 INTERIOR WALL ELEVATION ALONG GRID LINE "3"
S203 SCALE: 1 : 50



2 INTERIOR WALL ELEVATION ALONG GRID LINE "D"
S203 SCALE: 1 : 50

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No.	Date	Description	By

STAMPS:



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PROJECT NAME:

Ganaraska Forest Center - Auxiliary
Building

SHEET TITLE:

ELEVATIONS

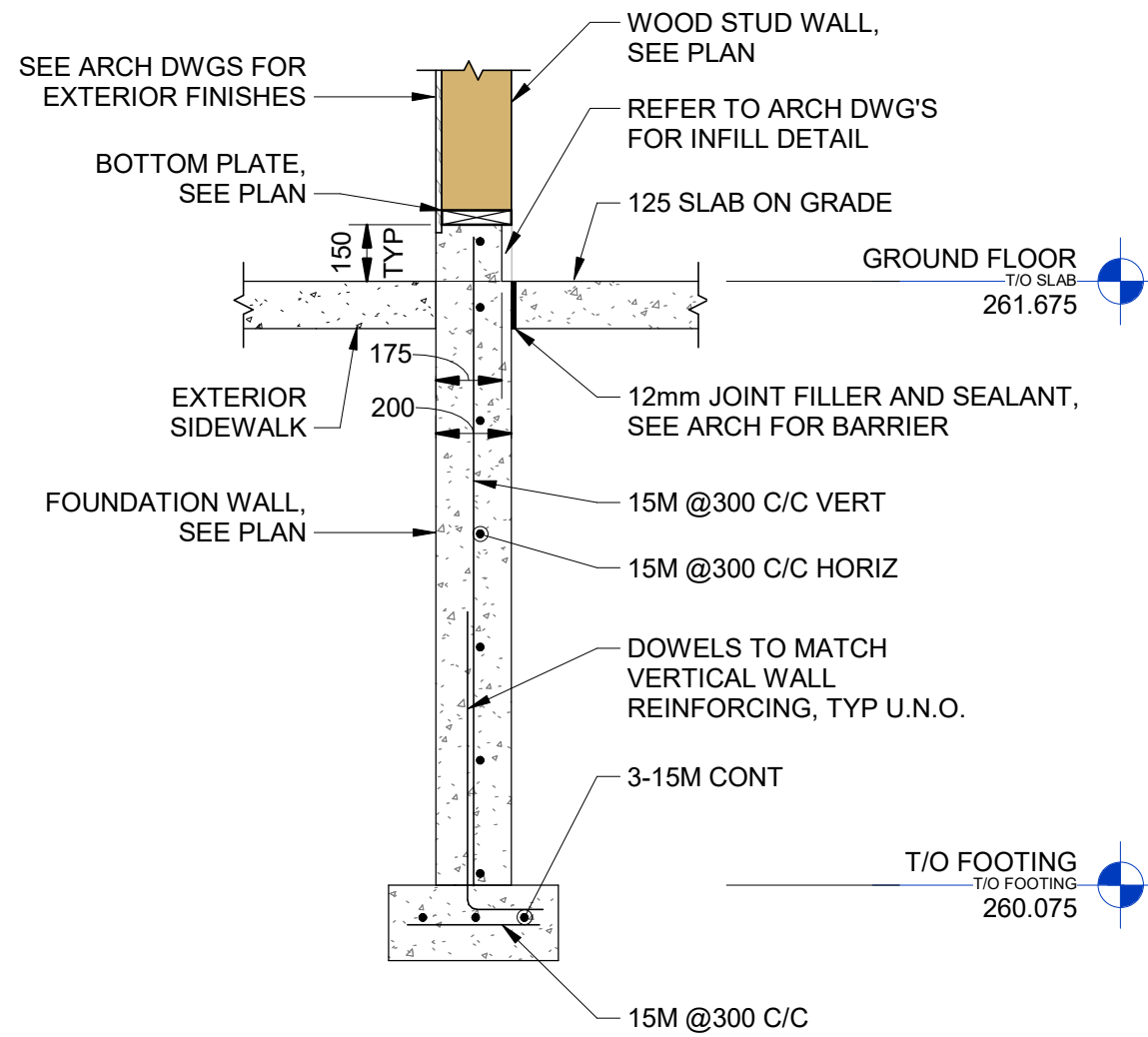
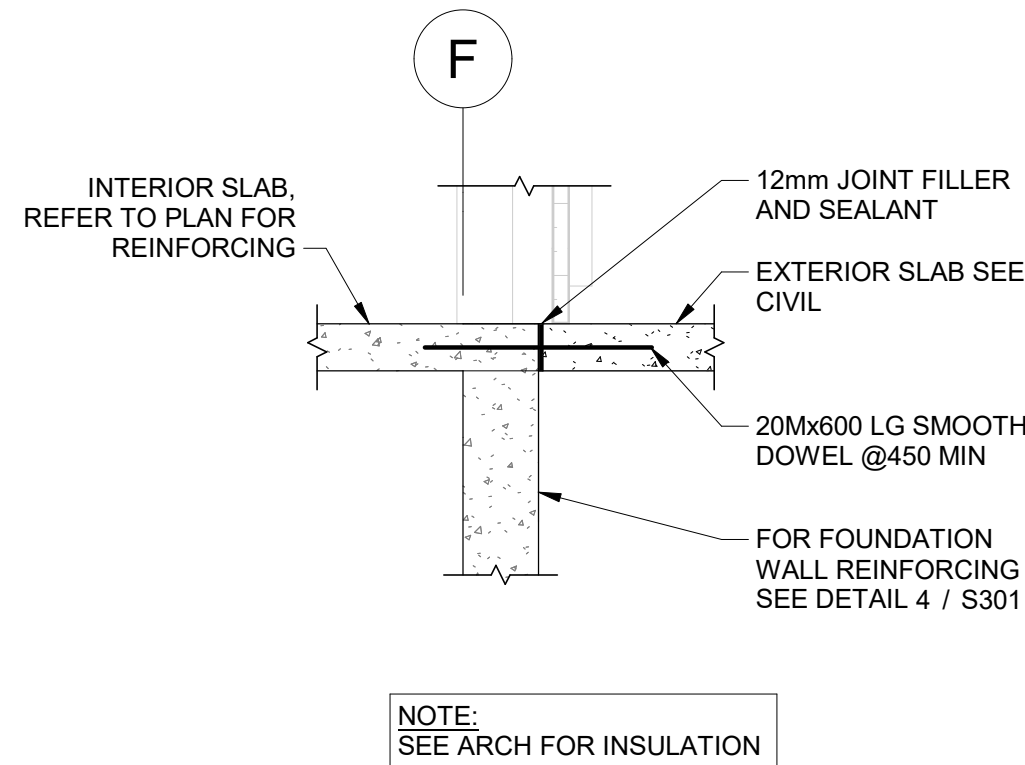
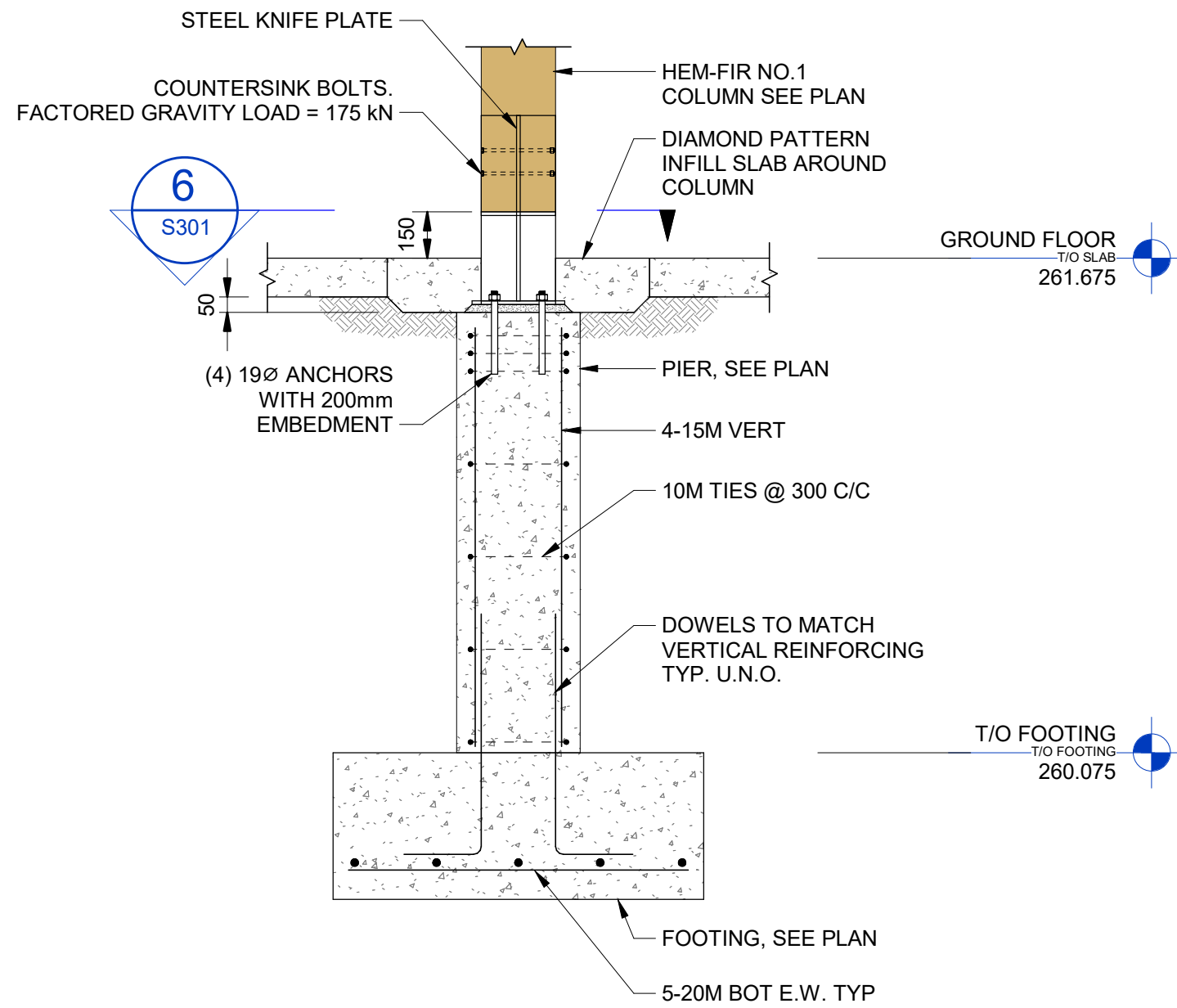
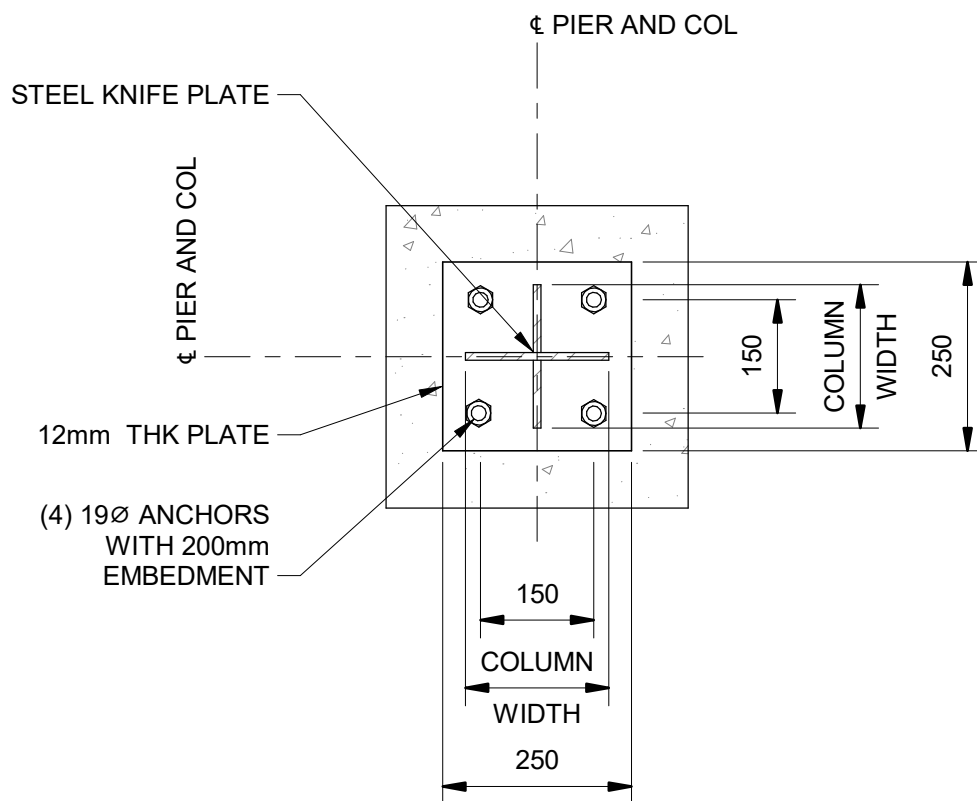
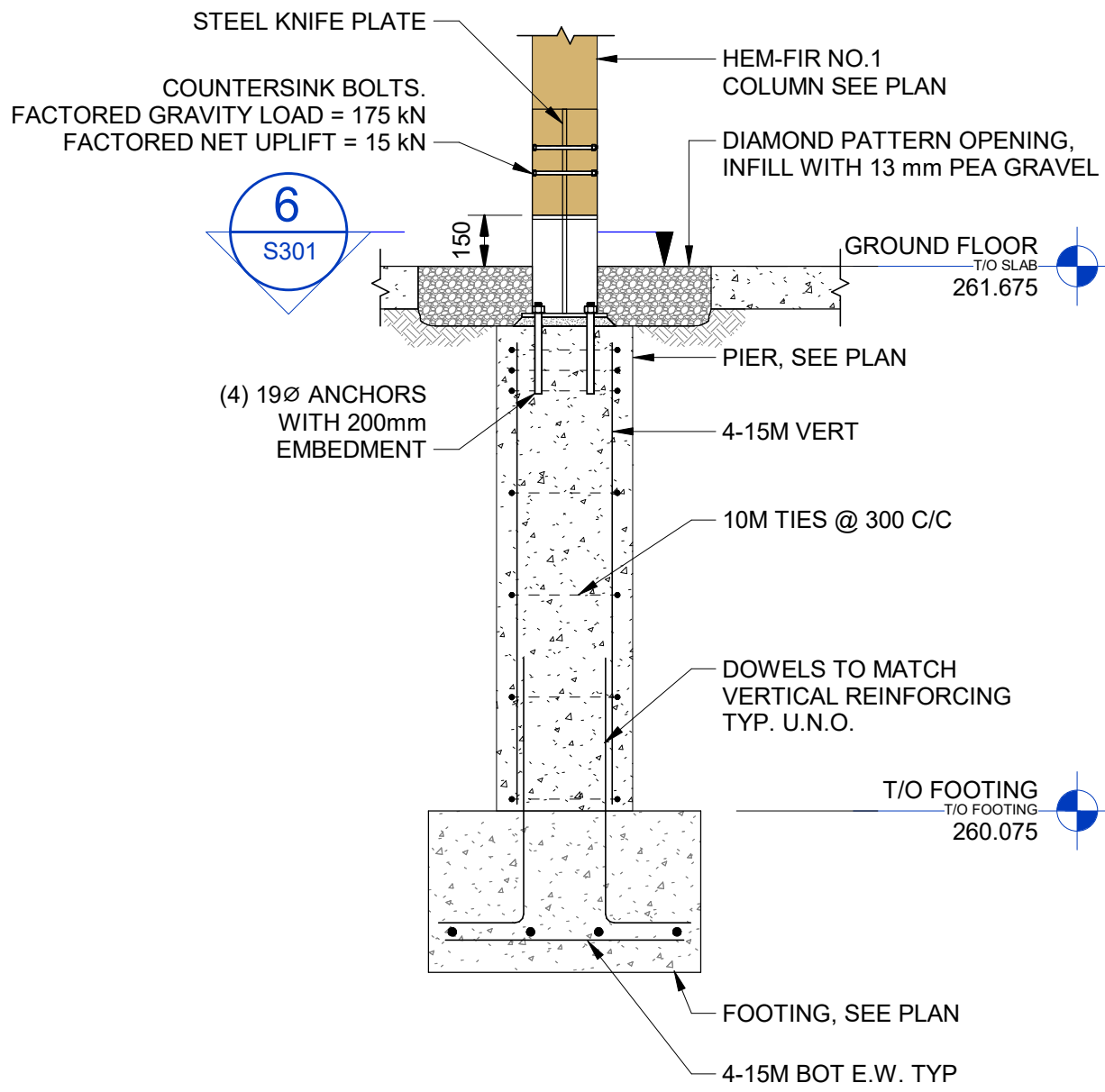
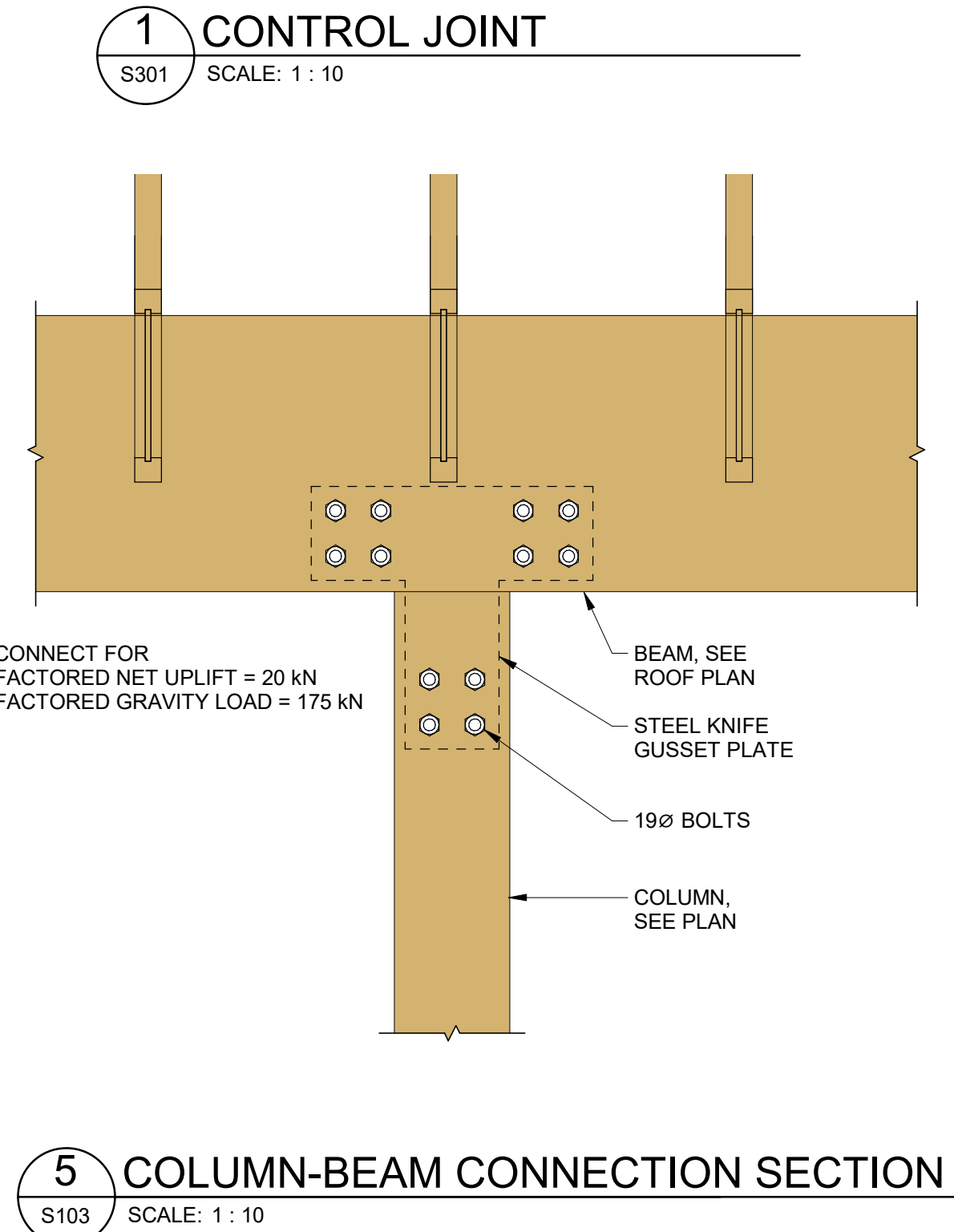
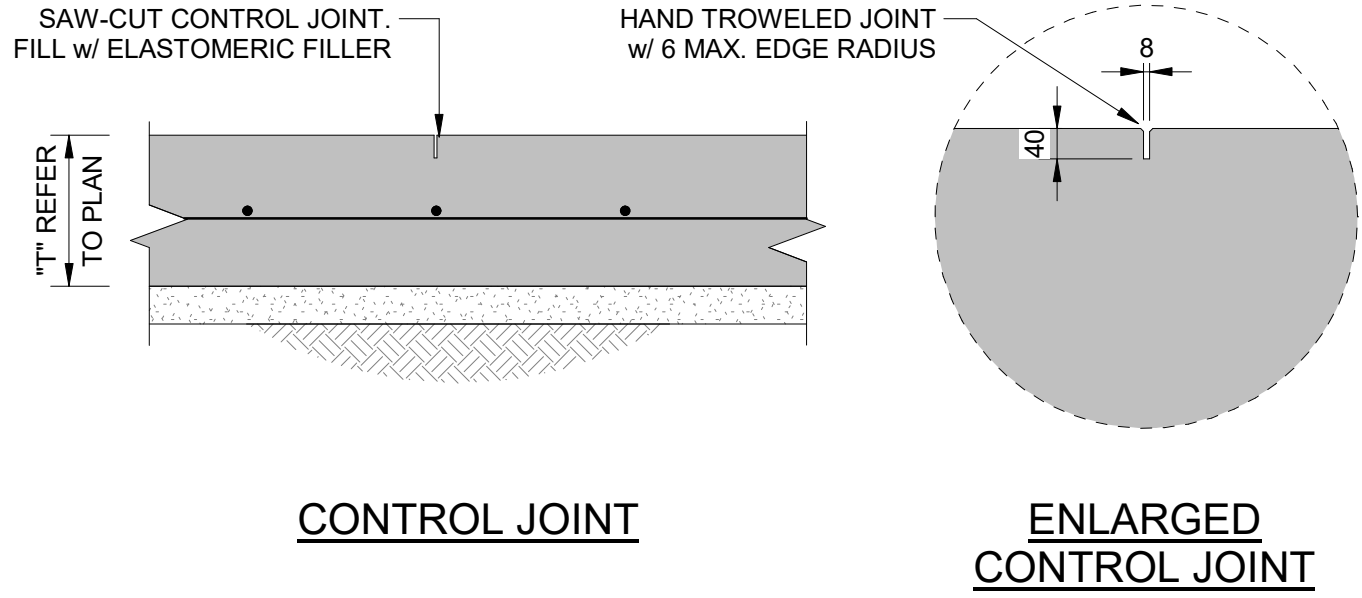
DISCIPLINE:

STRUCTURAL

DRAFTER: K.L. / K.D.	SCALE: AS NOTED
DESIGNER: B.S.	DATE: 2026-07-30
APPROVER: S.Y.	CHECKER: S.Y.
PROJECT No.: Z0020853	DRAWING No.: S203
SHEET No.: 12 of 13	

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0	2026-05-20	ISSUED FOR PERMIT	S.Y.

STAMP:	DESIGNED BY	APPROVED BY

CONSULTANT(S):

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CLIENT:

PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
SECTIONS

DISCIPLINE:
STRUCTURAL
DRAFTER:
K.L. / K.D.
DESIGNER:
B.S.
APPROVER:
S.Y.
PROJECT No:
Z0020853
SHEET No:
13 of 13
SCALE:
AS NOTED
DATE:
2026-07-30
CHECKER:
S.Y.
DRAWING No:
S301

HVAC ABBREVIATIONS

BB	BASEBOARD HEATER
BD	BALANCING DAMPER
E/A	EXHAUST AIR
ERV	ENERGY RECOVERY VENTILATOR
EF	EXHAUST FAN
GF	GAS FURNACE
R/A	RETURN AIR
S/A	SUPPLY AIR
SD	SPLITTER DAMPER
TV	TURNING VANES
UH	UNIT HEATER

HVAC LEGEND		
		SUPPLY RECTANGULAR DUCTS (UP / DOWN)
		RETURN RECTANGULAR DUCTS (UP / DOWN)
		EXHAUST RECTANGULAR DUCTS (UP / DOWN)
		OUTSIDE AIR RECTANGULAR DUCTS (UP / DOWN)
		INSULATED DUCT
		BACKDRAFT DAMPER
		BALANCE DAMPER
		FIRE DAMPER
		SPLITTER DAMPER
		DESTRATIFICATION FAN REMOTE CONTROLLER
		AIR FLOW DIRECTION ARROW
		THERMOSTAT
		EQUIPMENT SYMBOL TYPE OF EQUIPMENT NUMBER DESIGNATION
		GRILLE SYMBOL TYPE SIZE (mm) AIR FLOW (cfm)

PLUMBING LEGEND	
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	CONDENSATE DRAIN
	ABOVEGROUND SANITARY
	UNDERGROUND SANITARY
	PLUMBING VENT
	PROPANE (LIQUEFIED PETROLEUM)
	FLOOR DRAIN
	STACK / FLOOR CLEANOUT
	HOSE BIBB
	FIXTURE TAG
	ELBOW RISING
	ELBOW DROPPING
	BRANCH RISING FROM TEE
	BRANCH DROPPING FROM TEE
	BALL VALVE

FIRE PROTECTION LEGEND	
	FIRE EXTINGUISHER C/W RECESSED CABINET

GENERAL NOTES

- ARRANGE FOR ALL REQUIRED INSPECTIONS FOR PERMIT.
- THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SITE MEETINGS OR AS ARRANGED BY CONSULTANT OR OWNER.
- PROVIDE SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE MECHANICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE BUT NOT BE LIMITED TO: VERIFYING UNIT VOLTAGE WITH ELECTRICIAN AND/OR SITE, EQUIPMENT PERFORMANCE, DIMENSIONS AND CLEARANCES.
- THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
- INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
- DO NOT USE ANY NEW PERMANENT EQUIPMENT FOR TEMPORARY USE DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL. WHERE SYSTEMS ARE USED AND ARE CONTAMINATED BY DUST OR DIRT, THE CONTRACTOR SHALL CLEAN IN A MANNER ACCEPTABLE TO THE CONSULTANT.
- MAINTAIN AS-BUILT DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
- REMOVE ALL REDUNDANT EQUIPMENT, MATERIALS AND GARBAGE FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
- ALL CUTTING, CORING AND PATCHING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR. TRENCHING, EXCAVATION AND BACKFILL FOR UNDERGROUND PLUMBING SHALL BE BY THIS CONTRACTOR.
- COORDINATE ROOFING FOR DUCT AND PIPE ROOF PENETRATIONS WITH GENERAL CONTRACTOR.
- MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
- TAG ALL EQUIPMENT WITH LAMACOID NAMEPLATES. TAG ALL VALVES WITH LAMACOID NAMEPLATES OR BRASS TAGS ON CHAINS.
- LABEL ALL PIPING IN AREA OF WORK WITH SERVICE AND FLOW ARROWS EVERY 10'(3m) AND ON EITHER SIDE OF WALLS.
- THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS BY THE ENGINEER PRIOR TO CEILINGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT. THE CONTRACTOR SHALL ARRANGE FOR ROUGH-IN INSPECTIONS BY THE ENGINEER PRIOR TO INSULATING OR CONCEALING ANYTHING. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXPOSE SERVICES FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT.
- PERFORM TESTING AND START UP OF ALL SYSTEMS AS REQUIRED BY CODE, THE CONSULTANT, MANUFACTURER'S REQUIREMENTS, AND AUTHORITIES HAVING JURISDICTION. SUBMIT REPORTS TO THE CONSULTANT.
- INSTRUCT AND DEMONSTRATE TO THE OWNER ON PROPER OPERATION OF THE SYSTEM. RECORD AND SUBMIT A LOG DATED AND SIGNED BY ALL ATTENDEES.
- UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATING ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD REVIEW.
- PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- PROGRESS DRAWS SHALL INCLUDE MINIMUM \$2,500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
- PROVIDE A COPY OF THE MAINTENANCE MANUAL ON USB OR BY FILE TRANSFER. MANUAL SHALL INCLUDE:
 - TABLE OF CONTENTS
 - CONTRACTOR INFORMATION
 - WARRANTY LETTER
 - SHOP DRAWINGS
 - O&Ms
 - INSPECTION & TEST REPORTS
 - AS-BUILT DRAWINGS.
- AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE MECHANICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. AS-BUILTS SHALL BE STAMPED ACCORDINGLY BY THE CONTRACTOR (ALL DRAWINGS). DRAWINGS SHALL BE SUBMITTED HARD COPY IN FULL SIZE. SUBSTANTIAL COMPLETION WILL NOT BE AWARDED UNTIL THE MANUALS AND AS-BUILTS HAVE BEEN SUBMITTED TO THE CONSULTANT AND THE CONSULTANT HAS APPROVED.
- REFER TO SPECIFICATIONS.

PLUMBING NOTES

- PROVIDE TRAPS FOR ALL FLOOR DRAINS, UNLESS OTHERWISE INDICATED ON DRAWINGS. EACH TRAP SHALL BE OF THE SAME SIZE AS TRAP ARM, AS INDICATED ON DRAWINGS.
- PROVIDE CLEANOUTS AS REQUIRED BY CODE. SIZE OF CLEANOUTS TO BE SAME SIZE AS SANITARY LINES.
- PROVIDE ALL TRENCHING, EXCAVATING AND BACKFILL FOR UNDERGROUND PLUMBING.
- PROVIDE PLUMBING VENTS ON GROUND FLOOR AND THROUGH ROOF AS REQUIRED BY CODE. VENTING OF SANITARY DRAINAGE SYSTEM REPRESENTED ON DRAWINGS TO FAVOUR WET VENTING, WHERE POSSIBLE, AND MINIMIZE PIPE LENGTHS. ANY OTHER VENTING SOLUTION BY CONTRACTOR SHALL BE AS DEEMED ACCEPTABLE BY OBC, AND SIZED ACCORDINGLY, AT NO EXTRA COST. SUPPLY AND INSTALL ROOF VENTS AS PER SPECIFICATIONS. ALL ROOFING WORK INCLUDING CUTTING, FLASHING AND MODIFICATIONS TO ROOF MEMBRANE SHALL BE BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
- PROVIDE ISOLATION VALVES AT HOT WATER TANK AND ALL FIXTURES.
- COORDINATE HANDING OF FLUSH LEVER ON FLUSH TANK WATER CLOSET WITH ACCESSIBLE SIDE OF EACH WASHROOM.
- INSULATE ALL DOMESTIC HOT, COLD AND TEMPERED WATER PIPING WITH 1" (25mm) INSULATION. PROVIDE PVC JACKET OVER INSULATION IN EXPOSED AREAS.
- ALL NEW HOSE BIBBS TO BE COMPLETE WITH VACUUM BREAKERS. OUTDOOR HOSEBIBBS TO BE COMPLETE WITH LOCKING COVER.
- PROVIDE P-TRAPS WITH CLEANOUT PLUG (OR REMOVABLE TRAPS) FOR ALL LAVS AND SINKS.
- PROVIDE FIRE STOPPING AROUND ALL PIPING THROUGH FIRE SEPARATIONS.
- COORDINATE EXACT LOCATION OF NEW FLOOR DRAINS WITH GENERAL CONTRACTOR TO SUIT FLOOR SLOPE.
- PROVIDE TRAP SEAL PRIMER FOR ALL FLOOR DRAINS USING PRIMER SPECIFIED IN PLUMBING FIXTURE SCHEDULE.
- LABEL ALL PIPING COMPLETE WITH SERVICE AND FLOW ARROWS. LABELS SHALL BE MAX 3m (10') SPACING AND ON EITHER SIDE OF WALLS.
- PROVIDE ACCESS DOORS WHERE REQUIRED AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION. REFER TO PLUMBING FIXTURE SCHEDULE.
- PROVIDE ESCUTCHEONS AROUND WATER AND SANITARY PIPING THROUGH WALL, FLOOR OR MILLWORK AT ALL FIXTURES.
- FLUSH AND PERFORM A VIDEO INSPECTION OF ALL UNDERGROUND PIPING SYSTEMS AFTER CONSTRUCTION AND IMMEDIATELY PRIOR TO APPLYING FOR SUBSTANTIAL COMPLETION.
- PERFORM DOMESTIC WATER QUALITY TEST AFTER ALL PLUMBING WORK. SUBMIT CERTIFICATE OF ANALYSIS FROM CERTIFIED TESTING AGENCY TO CONSULTANT AND INCLUSION IN CLOSEOUT DOCUMENTATION.

NOMINAL PIPE SIZE EQUIVALENCE

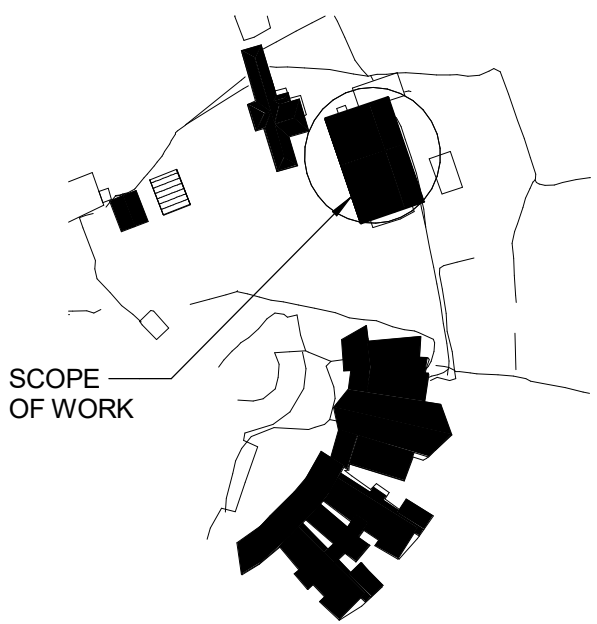
PIPE SIZES INDICATED ON DRAWINGS IN MILLIMETRES ARE EQUIVALENT TO THE FOLLOWING NPS:

15 mm	=	1/2 in
20 mm	=	3/4 in
25 mm	=	1 in
32 mm	=	1 1/4 in
40 mm	=	1 1/2 in
50 mm	=	2 in
65 mm	=	2 1/2 in
80 mm	=	3 in
100 mm	=	4 in

HVAC NOTES

- CONCEAL ALL SERVICES IN CEILING SPACES AND FURRED CONSTRUCTION UNLESS INSTALLED IN UNFINISHED OR EXPOSED AREAS OR IF SPECIFICALLY NOTED TO BE EXPOSED.
- COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- REFER TO REFLECTED CEILING PLAN TO CONFIRM EXACT LOCATION OF GRILLES AND DIFFUSERS. COORDINATE WITH LIGHTING PLAN FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS. LIGHTING TAKES PRECEDENCE.
- PROVIDE 4" FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS TO AIR HANDLING EQUIPMENT.
- PROVIDE ACOUSTIC INSULATION IN FIRST 5' (1.5m) OF SUPPLY AND RETURN DUCTS OFF AIR HANDLING UNITS, ALL TRANSFER DUCTS AND AS INDICATED ON DRAWINGS. SEAL ALL EXPOSED ENDS OF INSULATION.
- PROVIDE TURNING VANES IN ALL SQUARE ELBOWS AND SHORT RADIUS ELBOWS FOR SUPPLY AIR DUCTS.
- TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.
- SEAL ALL JOINTS ON ALL SUPPLY & RETURN AIR DUCTS WITH DURODYNE DUCT SEALER IN CONFORMANCE TO CLASS 'C' ASHRAE 90.1 AND SMACNA STANDARDS. ALLOW FOR PAINTING OF EXPOSED DUCTWORK NOT LOCATED IN MECHANICAL ROOMS OR UTILITY SPACES. COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT FOR COLOUR.
- BRANCH DUCTWORK TO DIFFUSERS TO BE SAME SIZE AS DIFFUSER NECK.
- PROVIDE BALANCE DAMPERS ON ALL BRANCH DUCTS CLOSE TO MAIN TAKE-OFF. REVIEW WITH BALANCING CONTRACTOR TO CONFIRM LOCATIONS OF ALL BALANCE DAMPERS PRIOR TO CONSTRUCTION.
- INCLUDE FOR THE SUPPLY AND INSTALLATION OF TWO(2) EXTRA BALANCE DAMPERS AFTER CONSTRUCTION AND BALANCING COMPLETION. (PENDING BALANCING RESULTS AND COMMENTS).
- FLEXIBLE DUCT SHALL ONLY BE USED IN SUPPLY AIR APPLICATIONS FOR CONNECTIONS TO DIFFUSERS IN DROPPED CEILING. FLEXIBLE DUCT SHALL BE MAXIMUM 6' (1.8m) IN LENGTH AND SHALL BE SECURELY FASTENED TO DUCTS AND DIFFUSERS. PROVIDE HANGERS AND FLEXIBLE DUCTWORK WITHOUT SHARP 90's, SAGGING, OR CRUSHING OF DUCT. FLEXIBLE DUCT IS NOT ACCEPTABLE IN ANY OTHER APPLICATION.
- PROVIDE EXTERNAL INSULATION ON ALL SUPPLY AIR DUCTS, ALL OUTSIDE AIR DUCTS AND ON ALL EXHAUST DUCTS WITHIN 8' (2.4m) OF OUTSIDE WALL/ROOF INCLUDING RIGID AND FLEXIBLE DUCT. EXCEPTION: SUPPLY AIR DUCTS THAT RUN IN EXPOSED AREAS OR IN R/A PLENUMS DO NOT NEED TO BE INSULATED.
- CONFIRM EXACT LOCATIONS OF THERMOSTATS/SENSORS WITH ENGINEER AND OWNER. MOUNT THERMOSTATS AT 47" (1200mm) AFF. ENSURE THAT THERMOSTAT/SENSOR LOCATIONS WILL NOT BE AFFECTED BY DIRECT SUNLIGHT, COLD WALLS OR MILLWORK.
- ALL CONCEALED INDOOR CONTROL WIRING SHALL BE RUN IN LVT. ALL EXPOSED INDOOR CONTROL WIRING (IN UNFINISHED AREAS ONLY) SHALL BE RUN IN EMT CONDUIT WITH FINAL CONNECTION IN BX. ALL OUTDOOR CONTROL WIRING SHALL BE RUN IN LIQUIDTIGHT. ALL CONTROL WIRING SHALL RUN PARALLEL TO BUILDING LINES AND TIGHT TO ROOF DECK OR WALLS. ALL CONTROL WIRING PASSING THROUGH WALLS SHALL BE RUN IN EMT CONDUIT C/W BUSHINGS AT EACH END.
- PROVIDE FIRE DAMPERS AT ALL FIRE SEPARATIONS. FIRE DAMPERS SHALL BE TYPE 'B' C/W LINKAGE OUT OF THE AIR STREAM. FIRE DAMPER RATING TO MATCH THE RATING OF THE SEPARATION CROSSED. INSTALLATION MUST CONFORM TO LATEST NFPA/CUA 90A SPECIFICATIONS. ONLY USE ULC APPROVED EQUIPMENT. PROVIDE DUCT ACCESS DOORS AND BREAK AWAY FLANGES FOR ALL FIRE DAMPERS IN CONFORMANCE WITH CODE AND INSTALLATION INSTRUCTIONS. ACCESS DOORS SHALL BE TWIST LOCK TYPE - SCREWED PANELS ARE NOT ACCEPTABLE.
- PROVIDE DRYWALL ACCESS DOORS FOR CONCEALED FIRE AND BALANCE DAMPERS AND ANY OTHER CONCEALED DEVICES [AND TURN OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION. DOORS TO BE GALVANIZED STEEL FOR FIELD PAINTING. DOORS SHALL BE RATED WHERE INSTALLED IN FIRE SEPARATIONS.
- PROVIDE FIRE STOPPING AROUND ALL PIPING THROUGH FIRE SEPARATIONS.
- LABEL CEILING TILE WITH PERMANENT ADHESIVE LABELS OR LAMACOID NAMEPLATES FOR ACCESS TO MECHANICAL ITEMS.
- PROVIDE CONDENSATE DRAINS C/W TRAPS FOR NEW INDOOR AIR HANDLING EQUIPMENT AND RUN TO CLOSEST PLUMBING DRAIN WITH INDIRECT DRAIN CONNECTION IN A VISIBLE AND ACCESSIBLE LOCATION (CEILING SPACE NOT ACCEPTABLE). PROVIDE CONDENSATE PUMP WHERE GRAVITY DRAINAGE IS NOT POSSIBLE.
- OBTAIN THE SERVICES OF A NEBB, CAABC OR NBCTA ACCREDITED BALANCING COMPANY TO BALANCE THE COMPLETE HVAC SYSTEM. PROVIDE REPORT TO ENGINEER FOR REVIEW.
- PROVIDE TESTING AND STARTUP OF ALL NEW EQUIPMENT AND PROVIDE REPORTS TO THE ENGINEER FOR REVIEW.

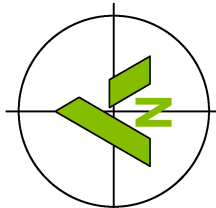
PLUMBING ROUGH-IN SCHEDULE								
TAG	FIXTURE	DCW		DHW		SANITARY		REMARKS
		in	mm	in	mm	in	mm	
F	DRINKING FOUNTAIN	1/2	15	-	-	1 1/4	32	
FD	FLOOR DRAIN	-	-	-	-	3	80	COMPLETE WITH TRAP PRIMER
FFD	FUNNEL FLOOR DRAIN	-	-	-	-	3	80	COMPLETE WITH TRAP PRIMER
HB	HOSE BIBB	3/4	20	-	-	-	-	COMPLETE WITH SELF DRAIN, VACUUM BREAKER
L	LAVATORY	1/2	15	1/2	15	1 1/2	40	
LS	LAUNDRY SINK	1/2	15	1/2	15	1 1/2	40	
MS	MOP SINK	1/2	15	1/2	15	3	80	
S	SINK	1/2	15	1/2	15	1 1/2	40	
SH	SHOWER	1/2	15	1/2	15	2	50	
U	URINAL - FLUSH VALVE	3/4	20	-	-	2	50	
WC	WATER CLOSET - FLUSH TANK	1/2	15	-	-	3	80	



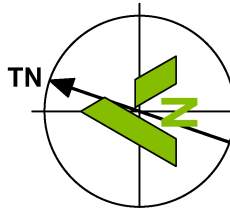
SITE PLAN
NTS

C	2026-07-30	ISSUED FOR TENDER	JSG	
B	2026-05-20	ISSUED FOR PERMIT	JSG	
A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG	
No.	Date	Description		By

STAMP:



PROJECT NORTH



TRUE NORTH

ENGINEER:



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Bowmanville, ON L1C 5M2
T 905.697.4464 F 905.697.0443
www.cima.ca

CLIENT:

PROJECT NAME:

Gananaska Forest Center - Auxiliary
Building

SHEET TITLE:

NOTES, LEGEND & SYMBOLS

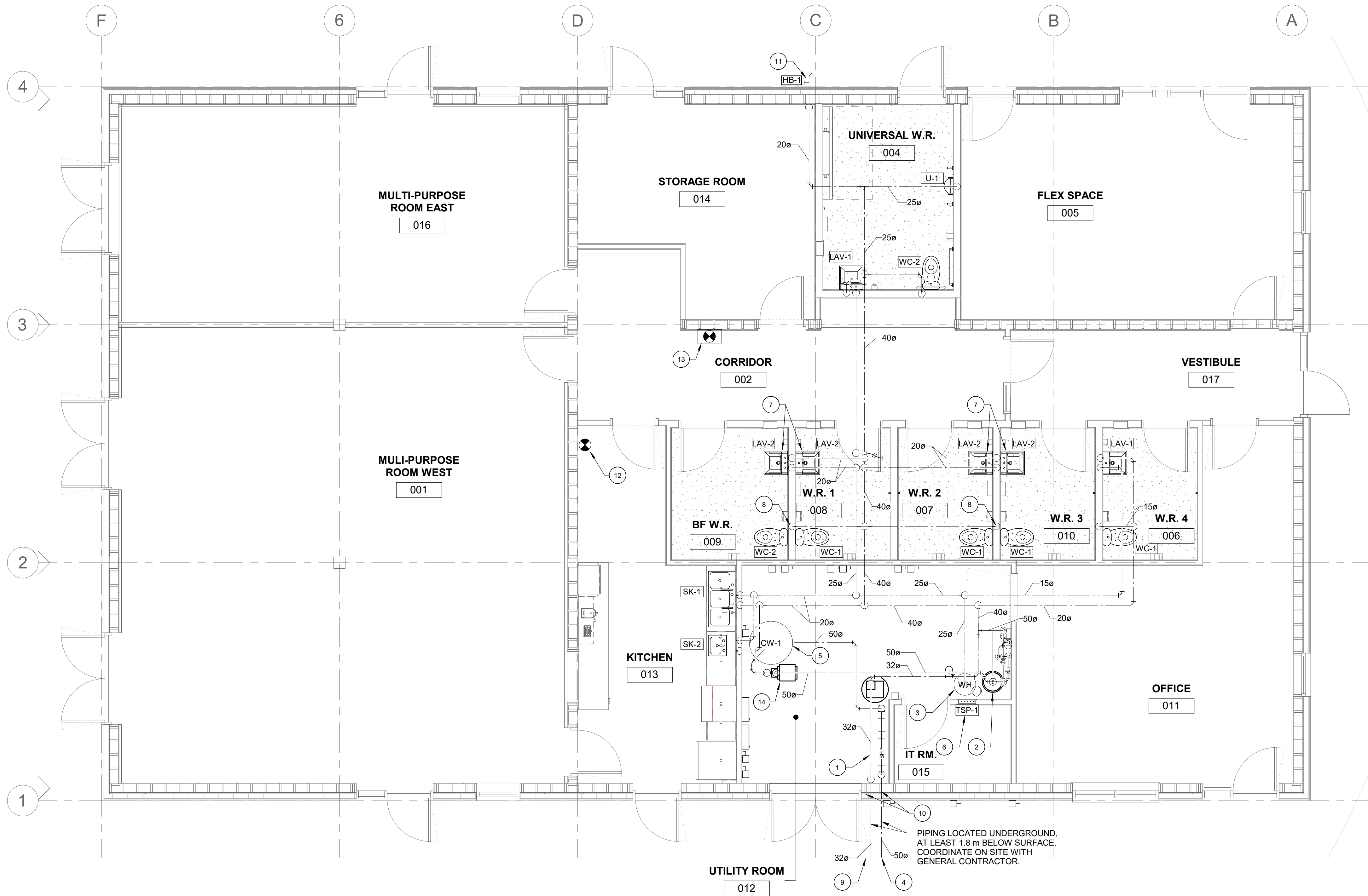
DISCIPLINE:

MECHANICAL

DRAFTER:	SR / JPCA	SCALE:	AS NOTED
DESIGNER:	EPJ	DATE:	2026-07-30
APPROVER:	JSG	CHECKER:	EPJ
PROJECT No.:	Z0020853	DRAWING No.:	M-001
SHEET No.:	1 of 11		

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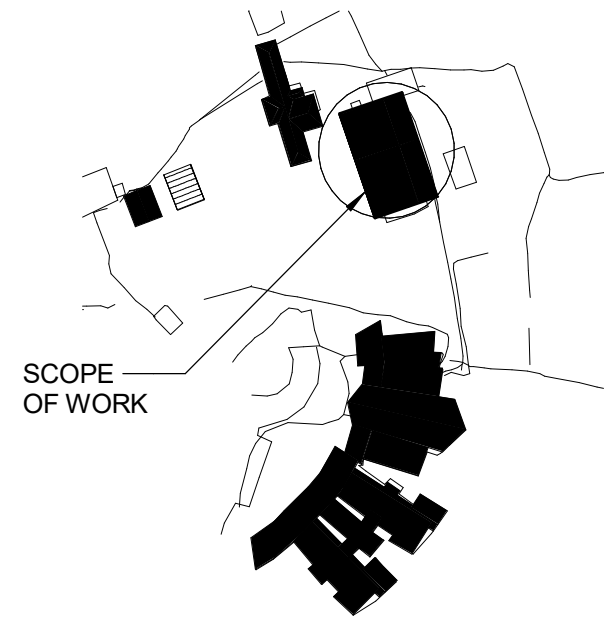
1 GROUND LEVEL - DOMESTIC WATER
SCALE: 1 : 50

M-101 GENERAL NOTES

1. ALL SUPPLY PIPES TO FIXTURES SHALL HAVE THE SAME SIZE AS FIXTURE CONNECTIONS, WITH NOMINAL PIPE SIZE NO LESS THAN INDICATED IN OBC.

M-101 DRAWING NOTES

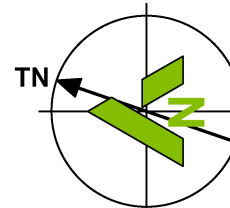
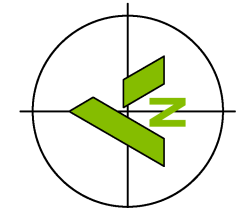
- 1 SEE INCOMING WATER DETAIL FOR PIPE SIZES, ACCESSORIES, AND OVERALL LAYOUT. KEEP CLEARANCE OF AT LEAST 750 mm IN FRONT OF BACKFLOW PREVENTER.
- 2 SEE FILTRATION AND WATER HEATER DETAIL FOR HYDROPNEUMATIC TANK AND FILTRATION SYSTEM'S PIPE SIZES, ACCESSORIES, AND LAYOUT.
- 3 72-LITER WATER HEATER PROVIDED BY PLUMBING CONTRACTOR, ON SUSPENDED SUPPORT PLATFORM SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. ELECTRICAL SUPPLY BY ELECTRICAL CONTRACTOR. SEE FILTRATION AND WATER HEATER DETAIL FOR PIPE ACCESSORIES AND THEIR LAYOUT.
- 4 WATER SERVICE PIPE FROM WELL, COORDINATE POSITIONING ON SITE AT 1.5 m OUTSIDE OF BUILDING FOUNDATIONS. SEE SITE SERVICES DRAWING BY CIVIL ENGINEER.
- 5 WATER STORAGE TANK, C/W ISOLATION VALVES AND UNION FITTINGS. PROVIDE INDIRECT DRAINAGE WITH NORMALLY-CLOSED BALL VALVE TO NEAREST FLOOR DRAIN. COORDINATE EXACT POSITION ON SITE WITH GENERAL CONTRACTOR.
- 6 PROVIDE ELECTRONIC TRAP SEAL PRIMER AND CONNECT TO TRAP SEAL CONNECTION OF ALL FLOOR DRAINS INDICATED ON PLAN.
- 7 CONNECT LAVATORY'S FAUCET TO SAME WATER PIPES AS THAT ON OPPOSITE WALL, WITH COLD WATER TO THE RIGHT AND HOT WATER TO THE LEFT.
- 8 CONNECT OPPOSITE WCs TO SAME DCW PIPING.
- 9 OUTGOING WATER SERVICE PIPE TO OTHER BUILDINGS. COORDINATE POSITIONING ON SITE AT 1.5 m OUTSIDE OF BUILDING FOUNDATIONS. SEE SITE SERVICES DRAWING BY CIVIL ENGINEER.
- 10 USE PERMANENT SEAL AROUND PIPE THROUGH FOUNDATION. SEE PIPE ENTRY DETAIL.
- 11 COORDINATE POSITIONING OF HOSE BIBB ON WALL WITH GENERAL CONTRACTOR AND WITH PROPANE PRV NEARBY SO AS TO AVOID INTERFERENCE. INSTALL BIBB 900 mm ABOVE GROUND. PROVIDE ISOLATION VALVE ON DROP IN STORAGE ROOM, AT AN ACCESSIBLE LEVEL.
- 12 PROVIDE 5-POUND PORTABLE FIRE EXTINGUISHER C/W RECESSED CABINET. SEE SPECIFICATION AND COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.
- 13 PROVIDE 10-POUND PORTABLE FIRE EXTINGUISHER C/W RECESSED CABINET. SEE SPECIFICATION AND COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.
- 14 BOOSTER PUMP SHALL BE PROVIDED BY THIS CONTRACTOR AND CONNECTED TO ELECTRICAL SUPPLY BY ELECTRICAL CONTRACTOR. SEE BOOSTER PUMP DETAIL FOR PIPE ACCESSORIES.



SITE PLAN
NTS

C	2026-07-30	ISSUED FOR TENDER	JSG
B	2026-05-20	ISSUED FOR PERMIT	JSG
A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG
No.	Date	Description	By

STAMPS:



PROJECT NORTH

TRUE NORTH

ENGINEER:

CIMA+

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www.cima.ca

CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary
Building

SHEET TITLE:

GROUND FLOOR - PLUMBING -
DOMESTIC WATER SUPPLY

DISCIPLINE:

MECHANICAL

DRAFTER:

JPCA

SCALE:

AS NOTED

DESIGNER:

JPCA

DATE:

2026-07-30

APPROVER:

JSG

CHECKER:

EPJ

PROJECT No.:

Z0020853

DRAWING No.:

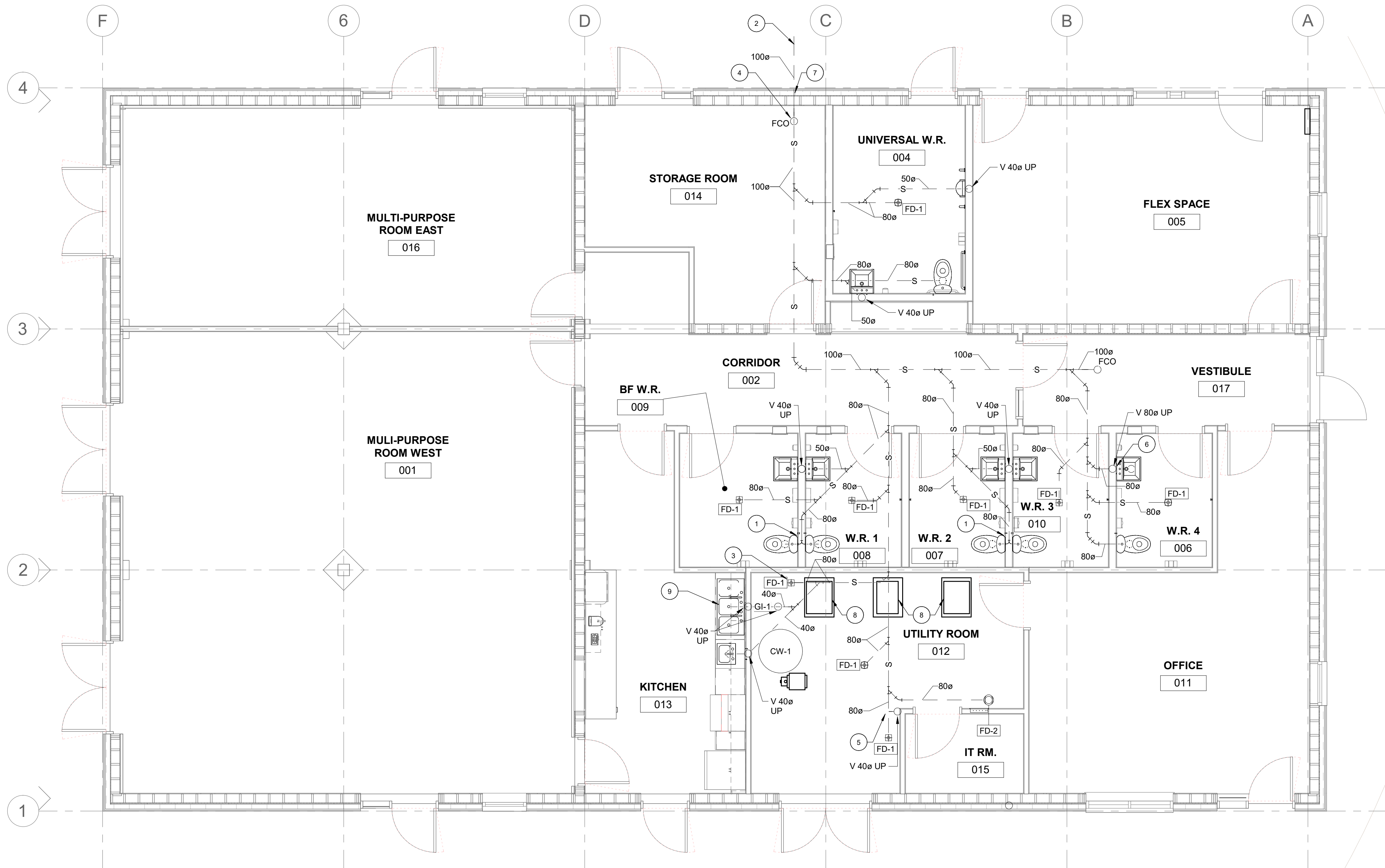
M-101

SHEET No.:

2 of 11

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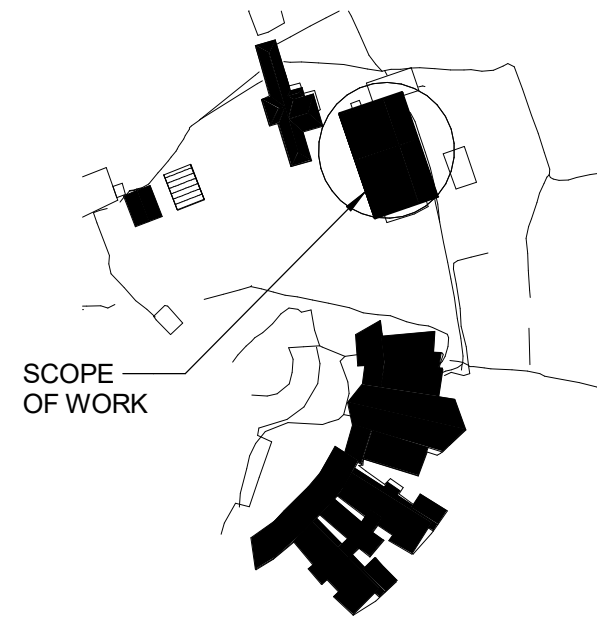
1 GROUND LEVEL - SANITARY DRAINAGE
SCALE: 1" = 50'

M-102 GENERAL NOTES

1. ALL HORIZONTAL SANITARY DRAINAGE PIPING TO BE SLOPED AT 2% FOR DIAMETERS OF 80 mm OR SMALLER.
2. ALL HORIZONTAL SANITARY DRAINAGE PIPING TO BE SLOPED AT 1% FOR DIAMETERS OF 100 mm OR LARGER, UNLESS OTHERWISE INDICATED ON DRAWINGS.

M-102 DRAWING NOTES

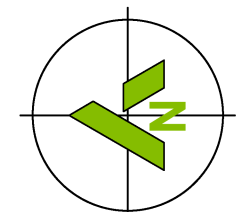
- 1 ENSURE WATER CLOSETS ARE CONNECTED WITH A DOUBLE Y FITTING AT THE SAME LEVEL FOR WET VENTING. MINIMIZE RUN UNDER THE WALL AS MUCH AS POSSIBLE.
- 2 4-in. SANITARY SEWER PIPE (INVERT EL.: 260.833 @ 1.5 m OUTSIDE OF BUILDING'S FOUNDATIONS). MAXIMUM PROBABLE FLOW RATE: 38.6 gpm (42 FU). COORDINATE POSITIONING ON SITE. SEE SITE SERVICES DRAWING BY CIVIL ENGINEER.
- 3 CONNECT CONDENSATE DRAINAGE PIPING FROM NEARBY AHUs INDIRECTLY OVER FLOOR DRAIN, AS WELL AS DRAINAGE FROM THE WATER STORAGE TANK.
- 4 BUILDING DRAIN CLEANOUT TO BE INSTALLED AS CLOSE AS POSSIBLE TO THE EXTERIOR WALL. COORDINATE POSITIONING ON SITE WITH GENERAL CONTRACTOR AND WITH LAYOUT OF STORAGE ROOM.
- 5 40-mm VENT PIPE FOR FLOOR DRAIN RUNNING UNDER SLAB.
- 6 FURTHEST WATER CLOSET CONNECTED TO THE BUILDING DRAIN TO BE PROVIDED WITH AN 80-mm VENT. CONNECT REGULAR 40-mm TRAP ARM OF LAVATORY TO 80-mm SANITARY TEE.
- 7 USE PERMANENT SEAL AROUND PIPE THROUGH FOUNDATION. SEE PIPE ENTRY DETAIL.
- 8 PIPE CONDENSATE DRAINAGE FROM CONDENSING GAS FURNACES TO NEAREST FLOOR DRAIN ACCORDING TO MANUFACTURER'S INSTRUCTIONS. PROVIDE AN ACID-NEUTRALIZING KIT DOWNSTREAM FROM THE FURNACES' DRAINAGE, BEFORE INDIRECT CONNECTION TO FLOOR DRAIN.
- 9 PROTECT ALL 3 COMPARTMENTS OF THE TRIPLE SINK WITH AN INDIRECT CONNECTION THROUGH A DN80a HUB DRAIN WITH P-TRAP INSTALLED IN THE MILLWORK, WITH A 40a OUTLET PIPE. CONNECT THE LATTER TO A GREASE INTERCEPTOR ON THE OTHER SIDE OF THE WALL, IN THE UTILITY ROOM.



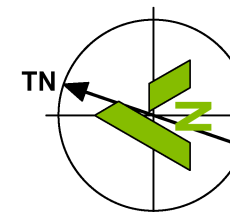
SITE PLAN
NTS

No.	Date	Description	By
C	2026-07-30	ISSUED FOR TENDER	JSG
B	2026-05-20	ISSUED FOR PERMIT	JSG
A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG

STAMPS:



PROJECT NORTH



TRUE NORTH

ENGINEER:



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www.cima.ca

CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary
Building

SHEET TITLE:

GROUND FLOOR - PLUMBING -
SANITARY DRAINAGE

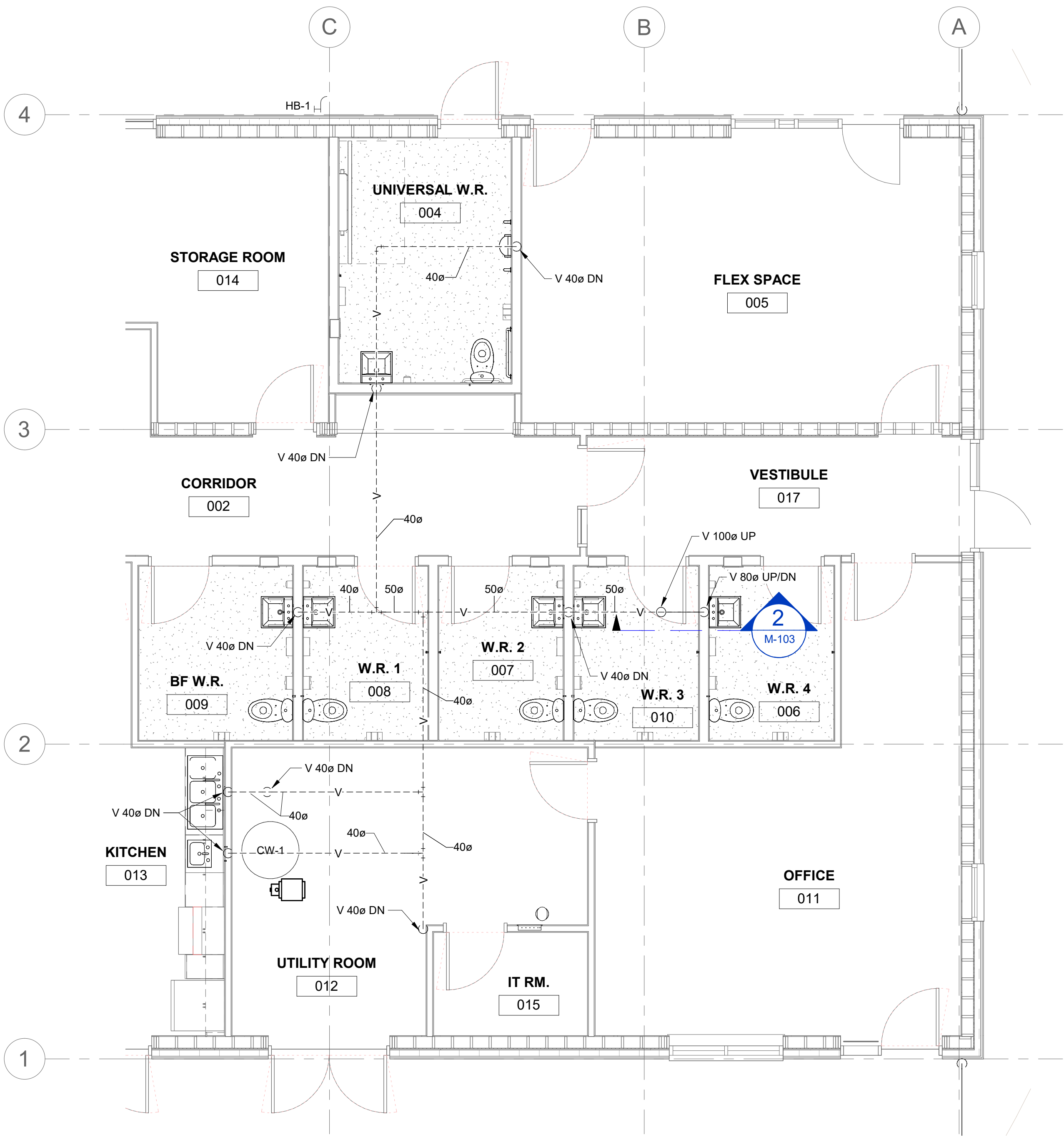
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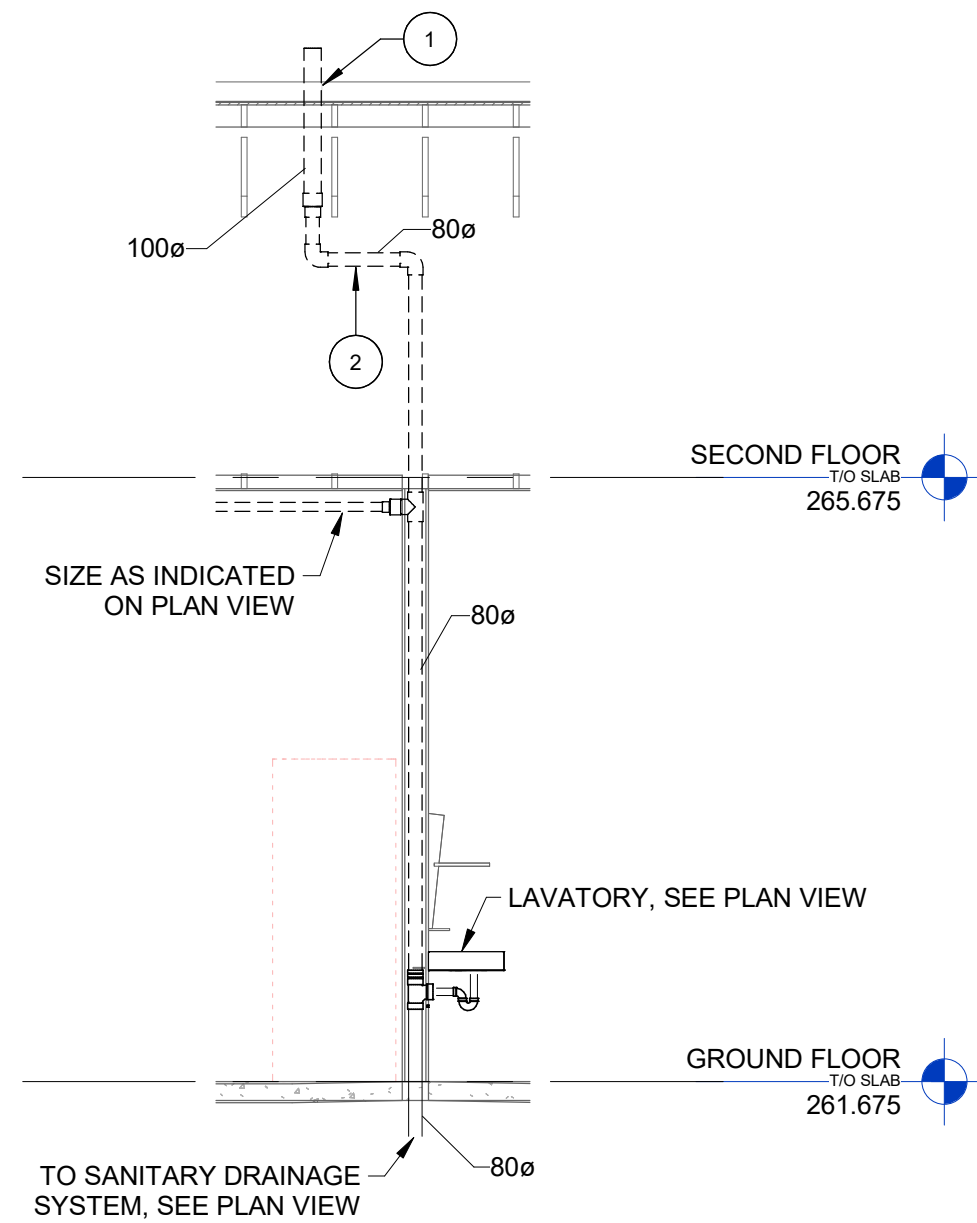
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DESIGNER:	JPCA	DATE:	2026-07-30
APPROVER:	JSG	CHECKER:	EPJ
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SHEET No.:	3 of 11		

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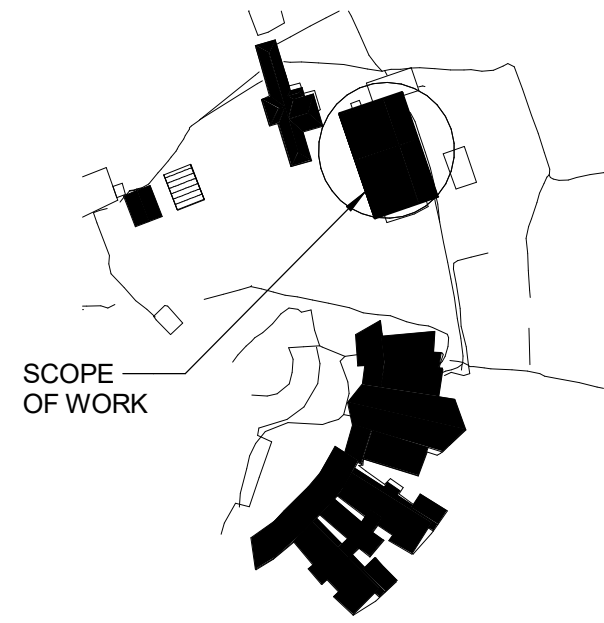


1 GROUND LEVEL (PARTIAL) - VENT
SCALE: 1 : 50



2 BUILDING DRAIN VENT AND TERMINAL
M-103 SCALE: 1 : 50

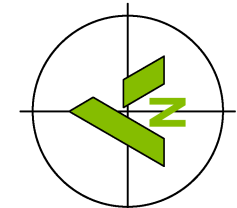
- M-103 DRAWING NOTES**
- 100-mm TERMINAL VENT TO OPEN AIR. COORDINATE EXACT LOCATION ON SITE WITH GENERAL CONTRACTOR. SEE VENT FLASHING DETAIL.
 - HORIZONTAL DEVIATION OF VENT PIPE LOCATED IMMEDIATELY UNDER ROOF TO PROVIDE ROOM FOR PIPE EXPANSION AND CONTRACTION. VENT PIPE SHALL BE INSULATED FROM ROOF DOWN TO 3 m BELOW ROOF INSULATION. SEE SPECIFICATION.



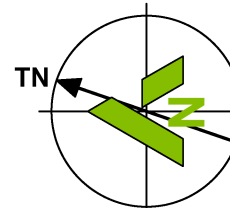
SITE PLAN
NTS

C	2026-07-30	ISSUED FOR TENDER	JSG
B	2026-05-20	ISSUED FOR PERMIT	JSG
A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG
No.	Date	Description	By

STAMPS:



PROJECT NORTH



TRUE NORTH

ENGINEER:



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www.cima.ca

CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

GROUND FLOOR - PLUMBING - VENT

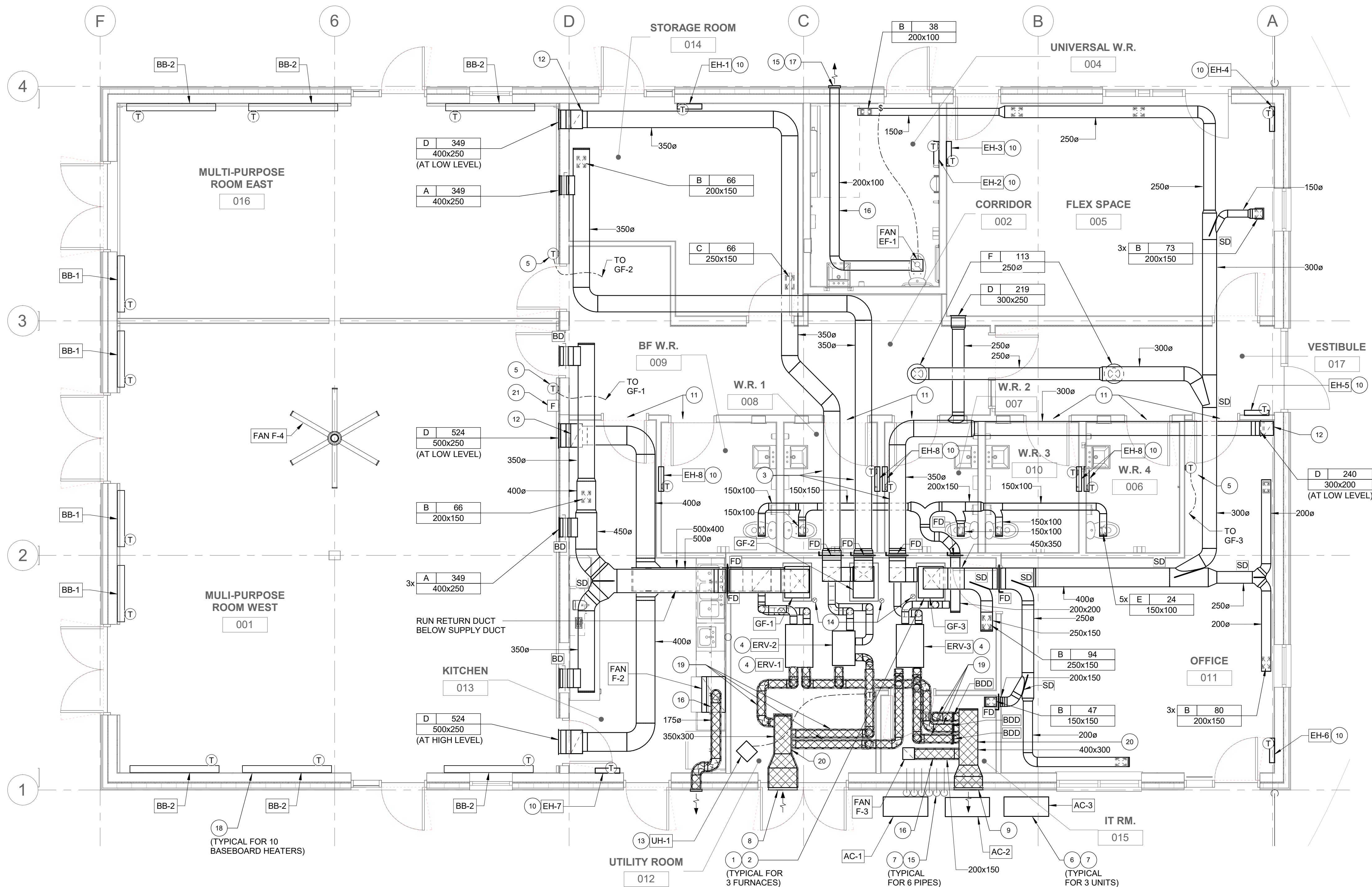
DISCIPLINE:

MECHANICAL

DRAFTER:	JPCA	SCALE:	AS NOTED
DESIGNER:	JPCA	DATE:	2026-07-30
APPROVER:	JSG	CHECKER:	EPJ
PROJECT No:	Z0020853	DRAWING No:	M-103
SHEET No:	4 of 11		

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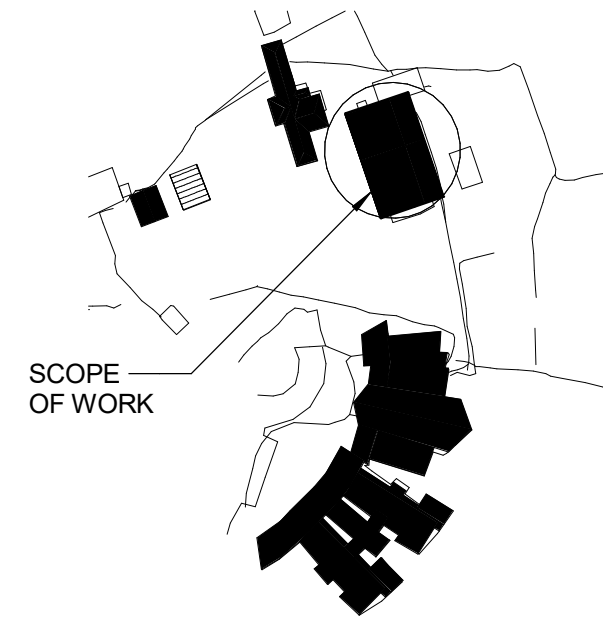
1 GROUND FLOOR PLAN - HVAC LAYOUT
SCALE: 1 : 50

HVAC GENERAL NOTES

- COORDINATE WITH GENERAL CONTRACTOR TO SCHEDULE THE MECHANICAL/CONTROLS WORKS.
- COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- THE DIRECTION TO 'PROVIDE' EQUIPMENT, MATERIALS, PRODUCTS, LABOUR AND SERVICES SHALL BE INTERPRETED TO 'SUPPLY, INSTALL AND TEST' THE MECHANICAL WORK INDICATED ON THE DRAWINGS AND SPECIFIED.

HVAC WORKING NOTES

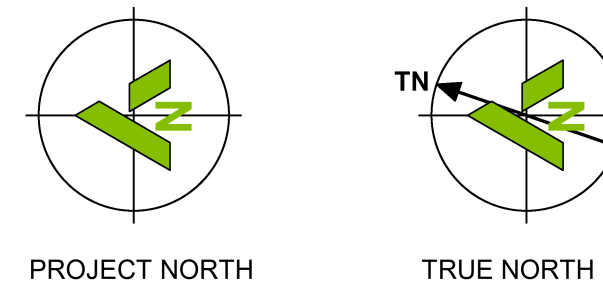
- PROPANE GAS FIRED FURNACE FLOOR MOUNTED ON 100mm THICK HOUSEKEEPING PAD. COORDINATE WITH GENERAL CONTRACTOR.
- CONNECT DUCTWORK TO FURNACE C/W TRANSITIONS AS REQUIRED.
- DUCTWORK COMPLETE WITH 25mm THICK INTERNAL ACOUSTIC INSULATION - DUCT DIMENSIONS TO BE CLEAR INSIDE DIMENSIONS. PROVIDE ACOUSTIC INSULATION IN THE FIRST 1500mm OF THE SUPPLY AND RETURN DUCTS OFF THE UNITS.
- ERV SUSPENDED AT HIGH LEVEL - COORDINATE EXACT LOCATION OF UNIT ON SITE.
- PROVIDE NEW THERMOSTAT MOUNT AT 1200mm ABOVE FINISHED FLOOR & CONNECT TO ASSOCIATED FURNACE - EXACT LOCATION TO BE DETERMINED AND COORDINATED ON SITE.
- AC UNIT SUPPORTED FROM WALL COMPLETE WITH MANUFACTURER SUPPLIED WALL MOUNTING BRACKET - MOUNT UNIT MIN. 300mm ABOVE CONCRETE WALKWAY
- PROVIDE INSULATED REFRIGERANT PIPING (TYPICAL FOR 2 FOR EACH UNIT) - SIZE OF PIPING AND CONNECTIONS TO BE AS PER MANUFACTURER'S RECOMMENDATIONS. EXACT ROUTING OF PIPING AND CONNECTIONS TO UNITS TO BE DETERMINED AND COORDINATED ON SITE.
- 600x450 FRESH AIR INTAKE LOUVRE C/W 300mm DEEP INSULATED PLENUM BEHIND LOUVRE - DUCT METAL SLEEVE AND INSULATION TO RUN CONTINUOUS TO LOUVRE - SLOPE BOTTOM OF LOUVRE TO BUILDING EXTERIOR.
- 600x450 EXHAUST LOUVRE C/W 300mm DEEP INSULATED PLENUM BEHIND LOUVRE - DUCT METAL SLEEVE AND INSULATION TO RUN CONTINUOUS TO LOUVRE - SLOPE BOTTOM OF LOUVRE TO BUILDING EXTERIOR.
- PROVIDE ELECTRIC WALL FAN HEATER - MOUNT HEATER AT MIN. 100mm AFF.
- UNDERCUT DOOR 25mm.
- DUCTWORK DOWN TO LOW LEVEL - BOTTOM OF EXHAUST GRILLE TO BE INSTALLED NOT GREATER THAN 450mm AFF.
- MOUNT UNIT HEATER MIN. 2700mm AFF - HEATER TO BE C/W REMOTE THERMOSTAT - MOUNT THERMOSTAT AT 1200mm AFF - EXACT LOCATION TO BE DETERMINED AND COORDINATED ON SITE.
- VERTICAL CONCENTRIC VENT KIT - TERMINATE ABOVE ROOF IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS - MAINTAIN CLEARANCES AROUND VENTING IN ACCORDANCE WITH CSA B149.1
- CAULK AND SEAL WEATHERTIGHT PENETRATIONS THROUGH WALL.
- THERMALLY INSULATE EXHAUST DUCT WITH 25mm THICK EXTERNAL INSULATION.
- PROVIDE BRICK VENT FOR SIDING INSTALLATION.
- PROVIDE BASEBOARD ELECTRIC HEATER - MOUNT AT 100mm ABOVE FINISHED FLOOR.
- THERMALLY INSULATE ALL EXHAUST AND INTAKE DUCTWORK TO/FROM THE ERV WITH 25mm THICK EXTERNAL INSULATION.
- THERMALLY INSULATE DUCTWORK WITH 25mm THICK EXTERNAL INSULATION.
- REMOTE FAN CONTROLLER - MOUNT 1200mm AFF - EXACT LOCATION TO BE DETERMINED AND COORDINATED ON SITE.



SITE PLAN
NTS

No.	Date	Description	By
C	2026-07-30	ISSUED FOR TENDER	JSG
B	2026-05-20	ISSUED FOR PERMIT	JSG
A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG

STAMPS:



ENGINEER:
CIMA+
415 Baseline Road West
Bowmanville, ON L1C 5M2
T 905.697.4464 F 905.697.0443
www.cima.ca

CLIENT:

PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

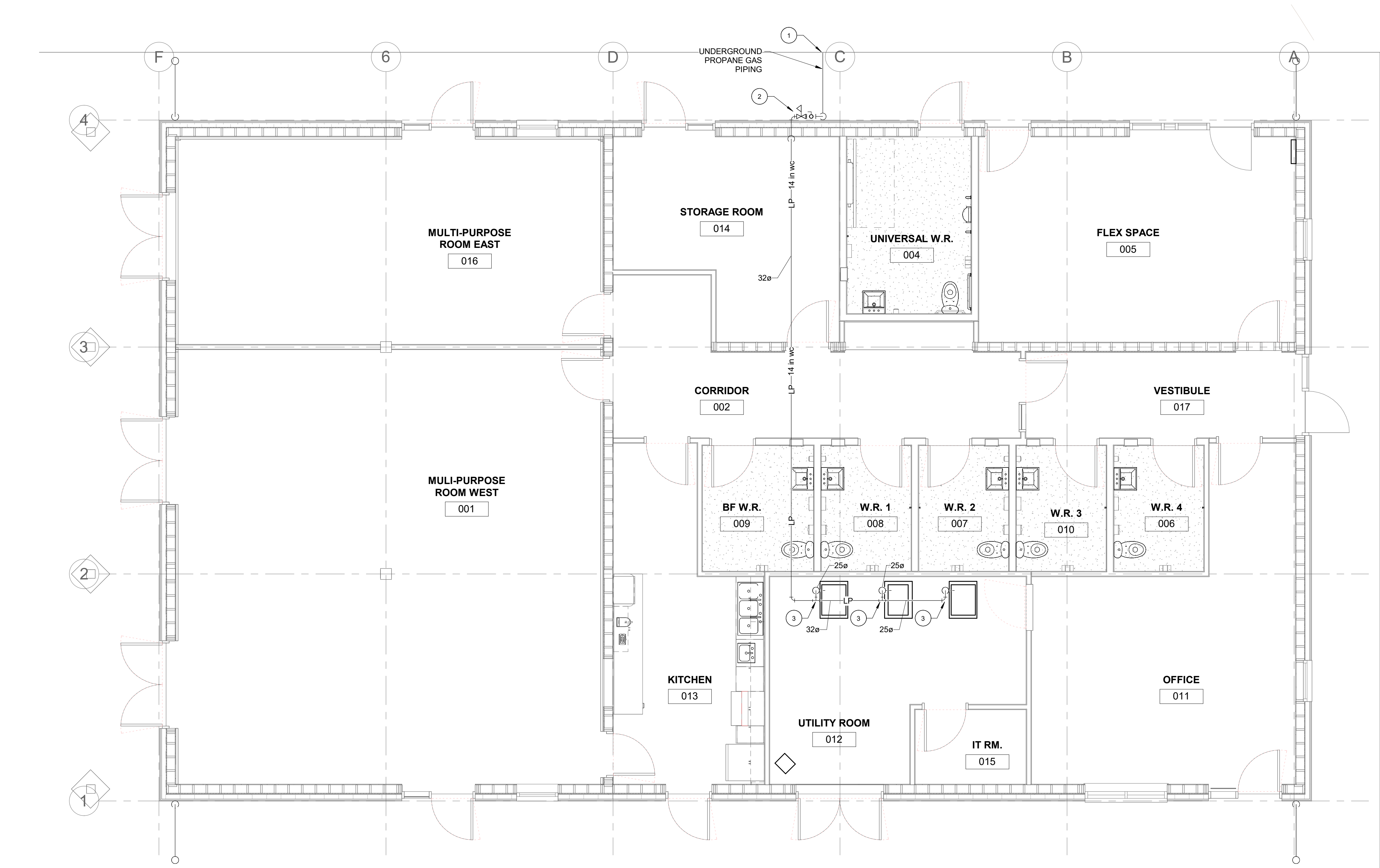
SHEET TITLE:
GROUND FLOOR - HVAC

DISCIPLINE:
MECHANICAL

DRAFTER: SR	SCALE: AS NOTED
DESIGNER: EPJ	DATE: 2026-07-30
APPROVER: JSG	CHECKER: EPJ
PROJECT No.: Z0020853	DRAWING No.: M-104
SHEET No.: 5 of 11	

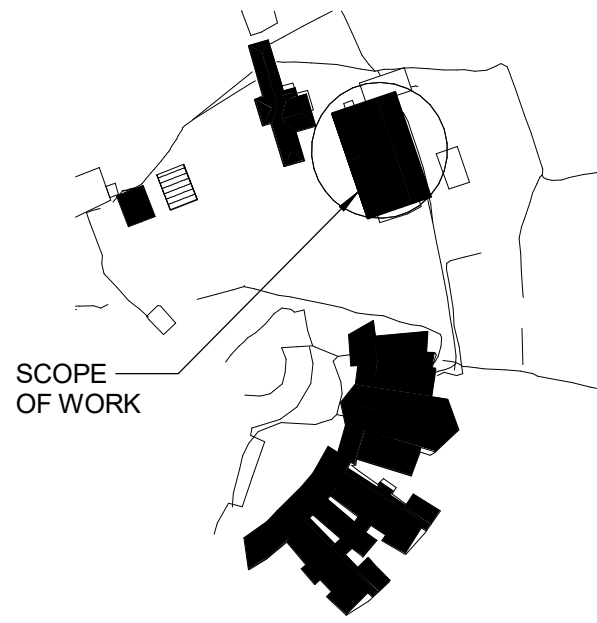
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1 GROUND LEVEL - PROPANE
SCALE: 1 : 50

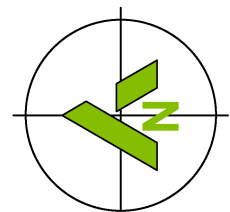
- M-105 DRAWING NOTES
- 1 INCOMING UNDERGROUND PROPANE GAS PIPE (5 PSIG) FROM PROPANE TANK LOCATED ON SITE. COORDINATE EXACT POSITION UP TO 1.5 m OUTSIDE OF BUILDING'S FOUNDATIONS WITH GENERAL CONTRACTOR. SIZE PIPE TO PRESSURE REGULATOR ACCORDING TO INCOMING PIPE SIZE (APPROX. 20ø). SEE SITE SERVICES DRAWING BY CIVIL ENGINEER.
 - 2 NEW INCOMING GAS WITH SHUT-OFF VALVE AND SECOND-STAGE REGULATOR. SEE SECTION 23 11 23 FOR SPECIFICATION OF REGULATOR.
 - 3 SEE GAS LINE CONNECTION DETAIL FOR ACCESSORIES AND LAYOUT OF PIPING AT EQUIPMENT POINT OF CONNECTION.



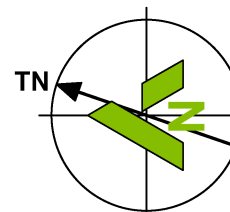
SITE PLAN
NTS

C	2026-07-30	ISSUED FOR TENDER	JSG
B	2026-05-20	ISSUED FOR PERMIT	JSG
A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG
No.	Date	Description	By

STAMPS:



PROJECT NORTH



TRUE NORTH

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CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

GROUND FLOOR - PROPANE

DISCIPLINE:

MECHANICAL

DRAFTER:

JPCA

SCALE:

AS NOTED

DESIGNER:

JPCA

DATE:

2026-07-30

APPROVER:

JSG

CHECKER:

EPJ

PROJECT No:

Z0020853

DRAWING No:

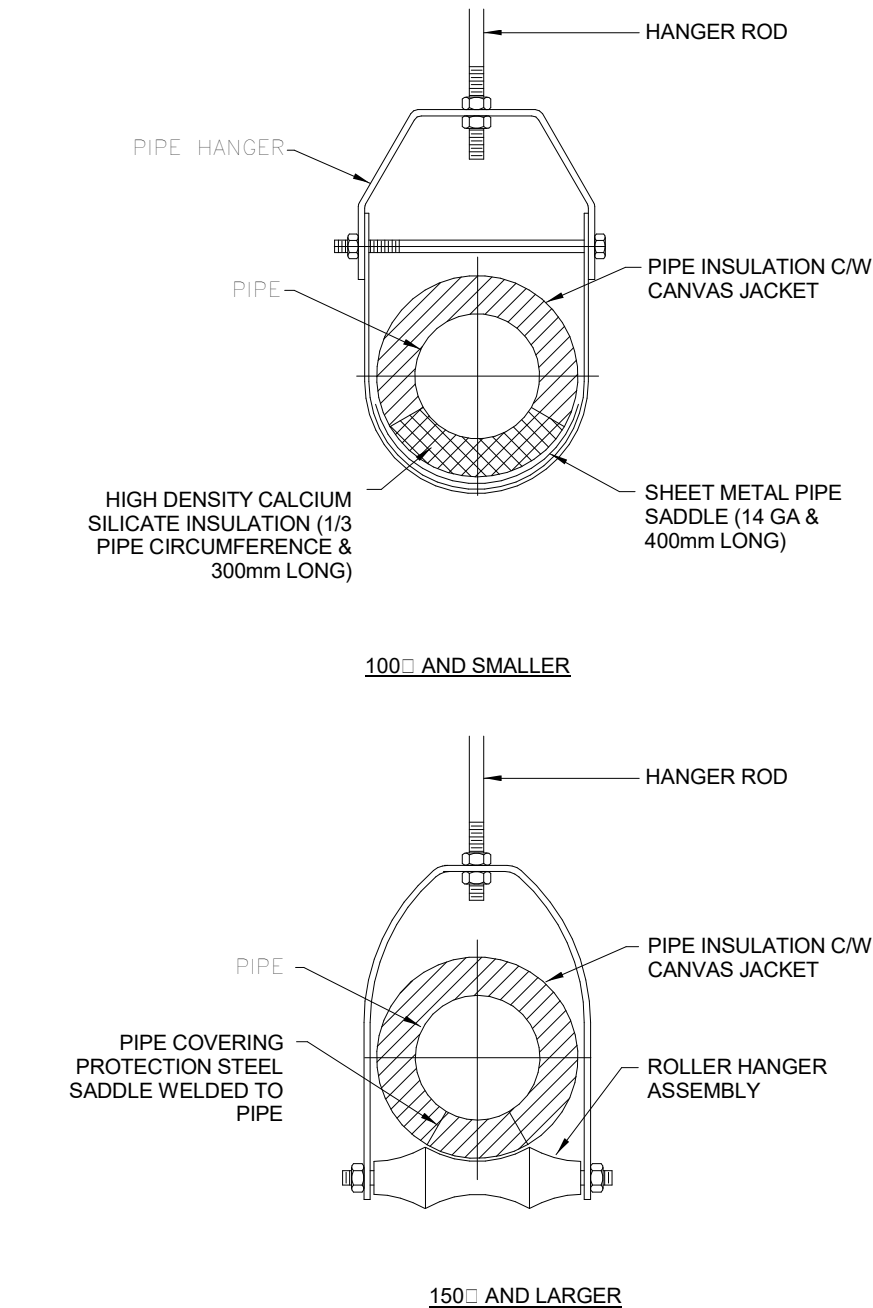
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SHEET No:

6 of 11

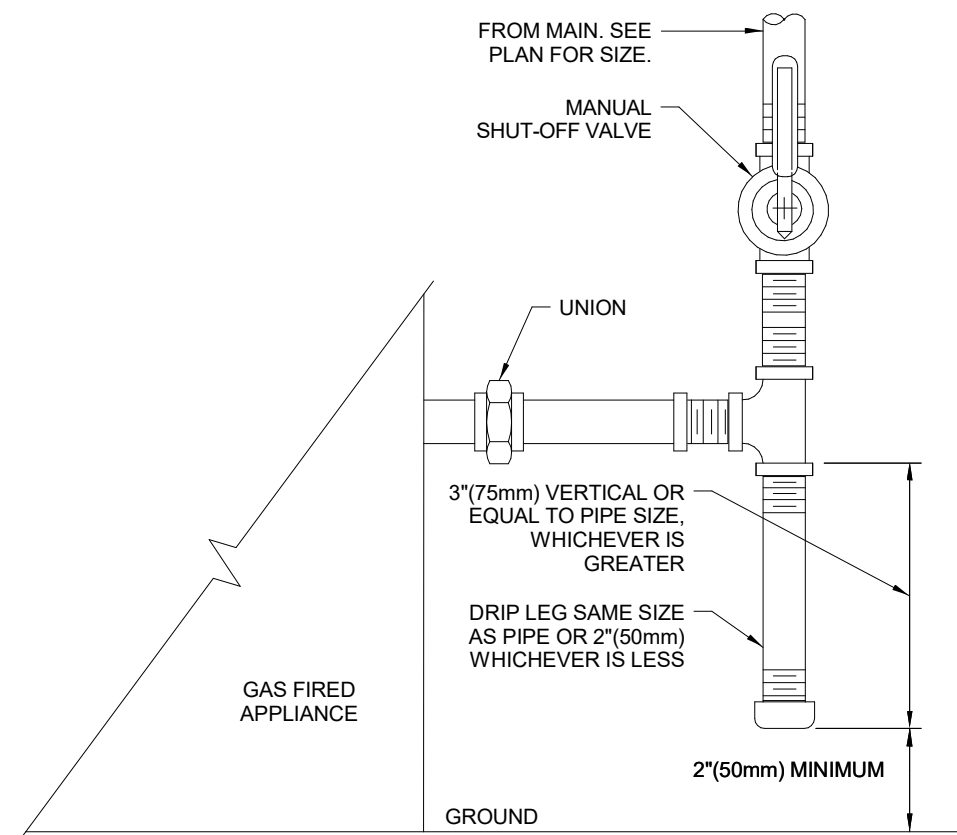
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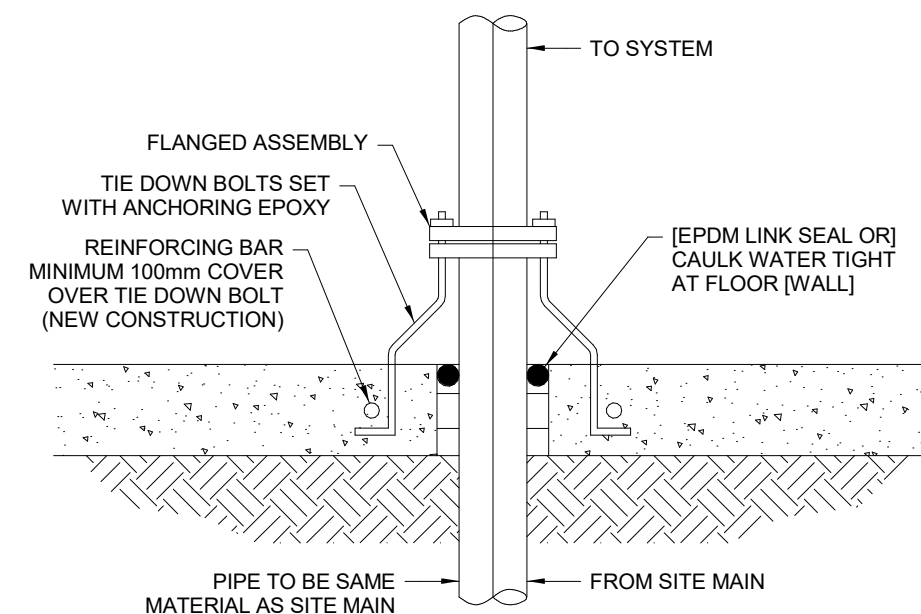
INSULATED PIPE HANGER DETAILS

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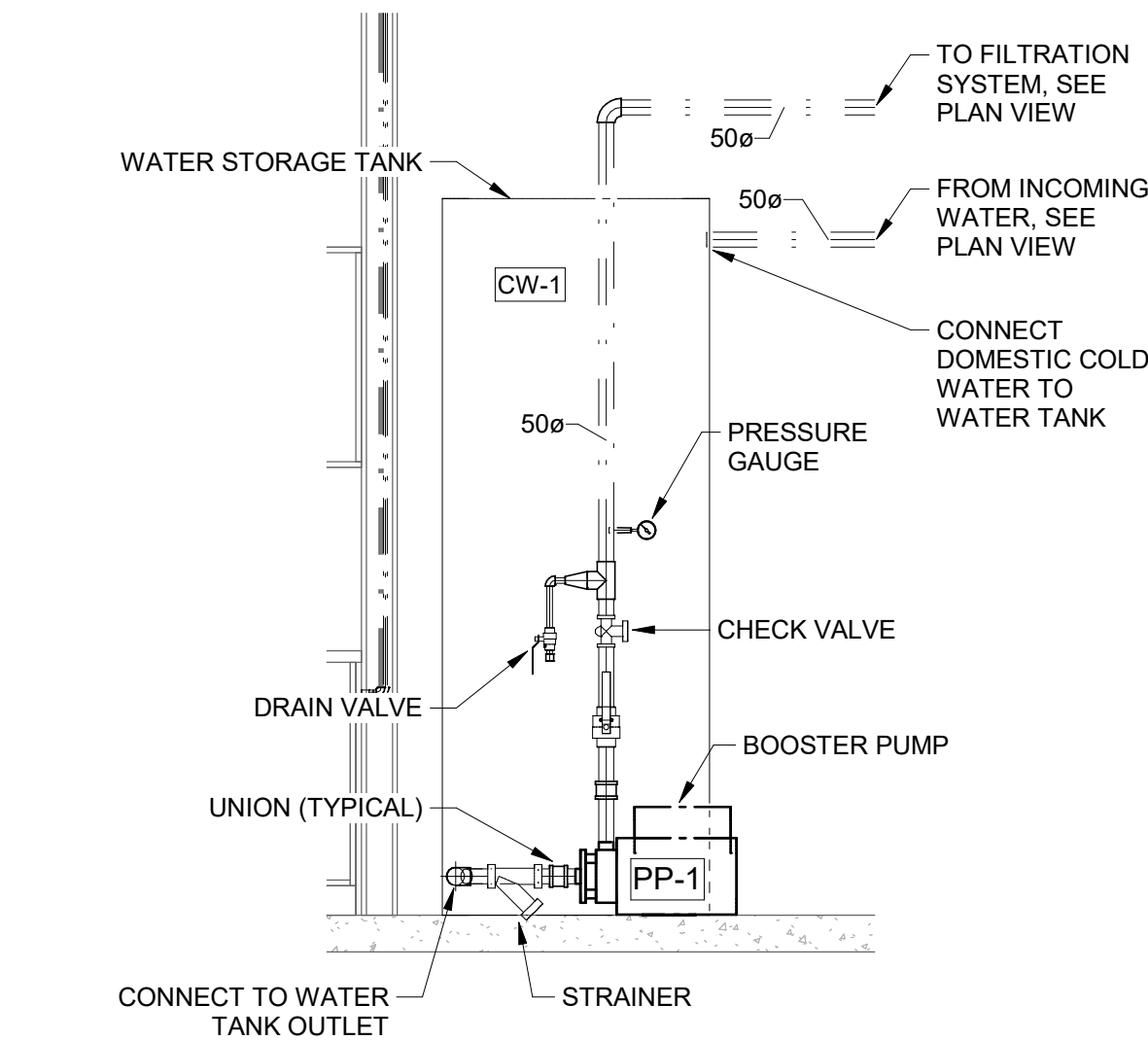
GAS LINE CONNECTION DETAIL

SCALE: NTS



PIPE ENTRY DETAIL

SCALE: NTS

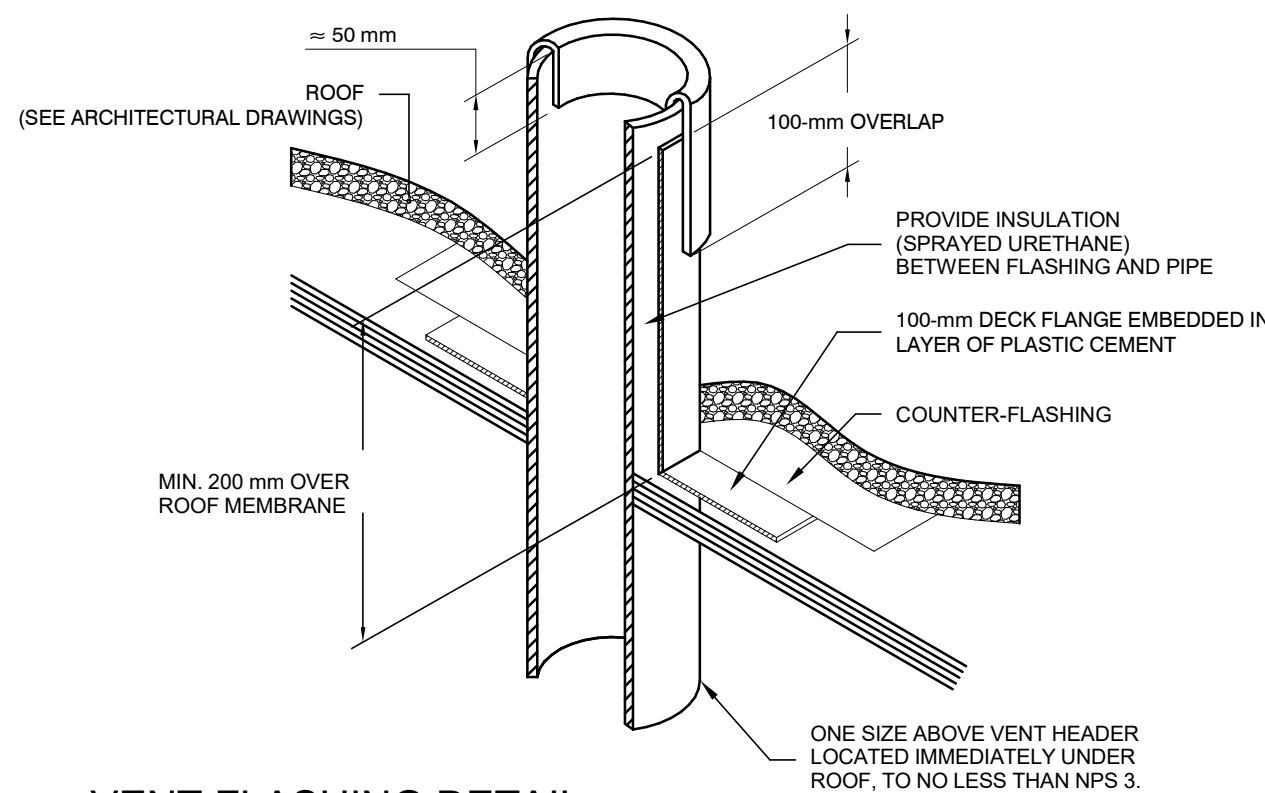


BOOSTER PUMP DETAIL

SCALE: 1 : 25

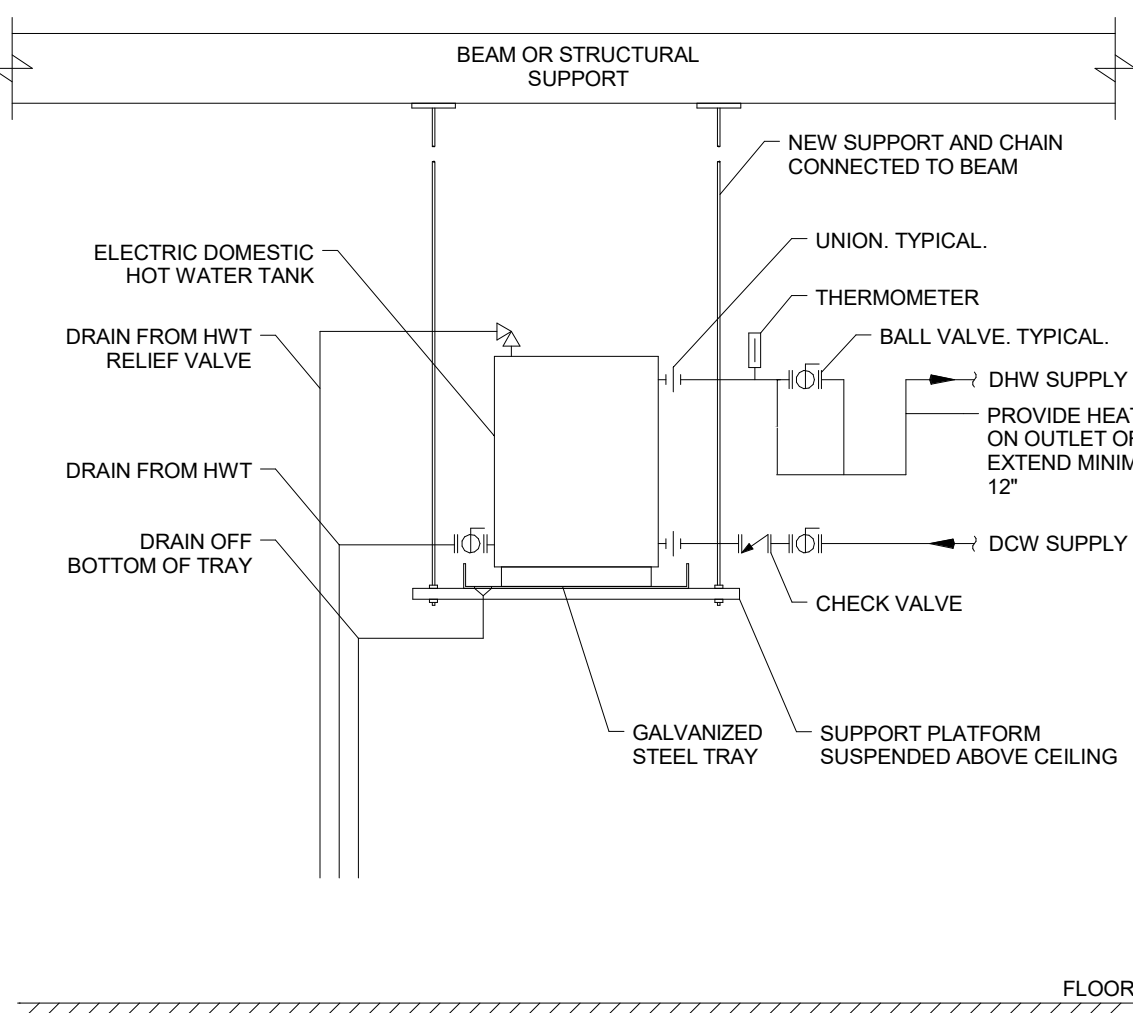
NOTE

VENT FLASHING TO BE SUPPLIED BY THIS CONTRACTOR, BUT INSTALLED BY GENERAL CONTRACTOR, FOLLOW MANUFACTURER'S INSTRUCTIONS. SEE SPECIFICATION.



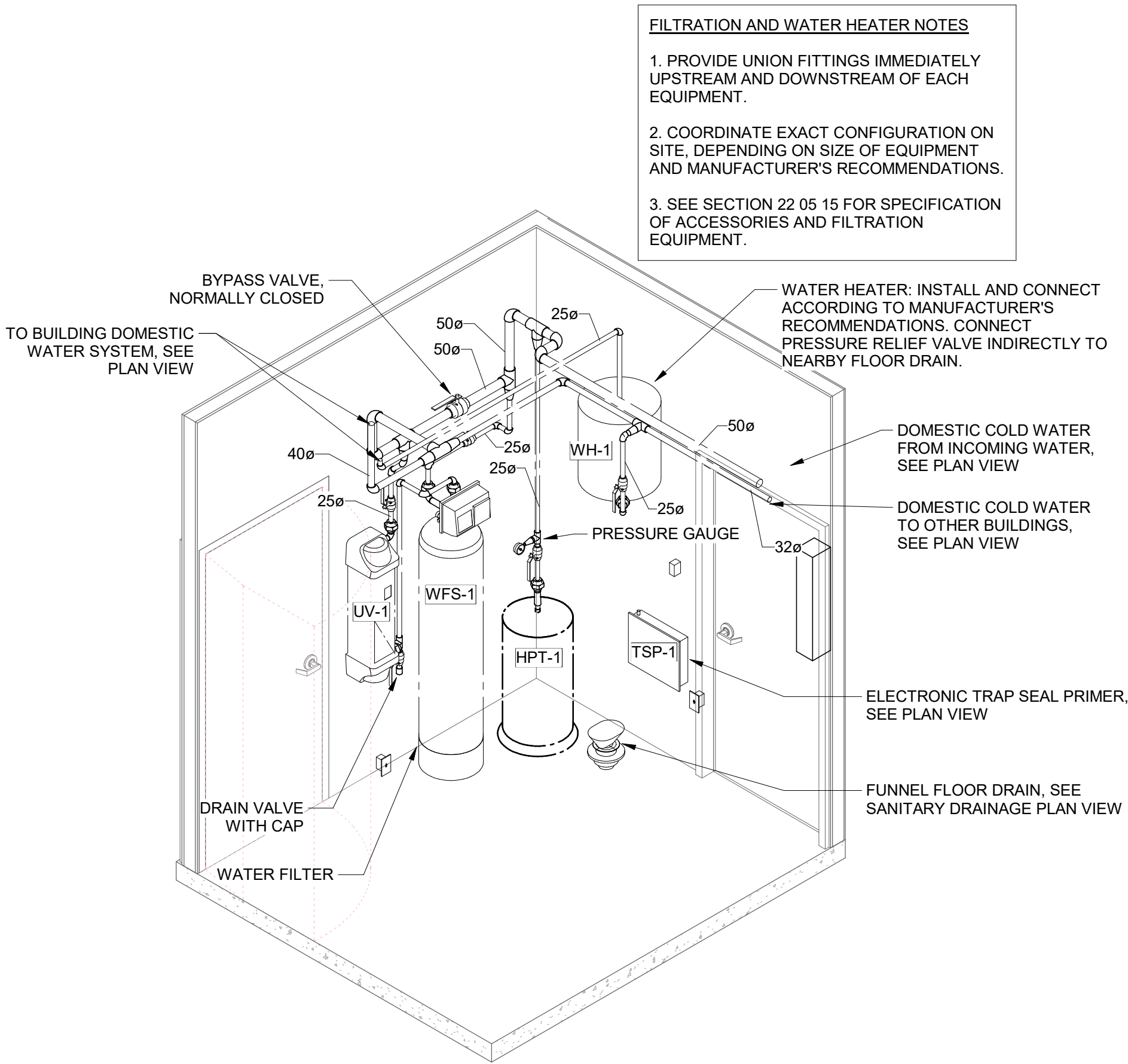
VENT FLASHING DETAIL

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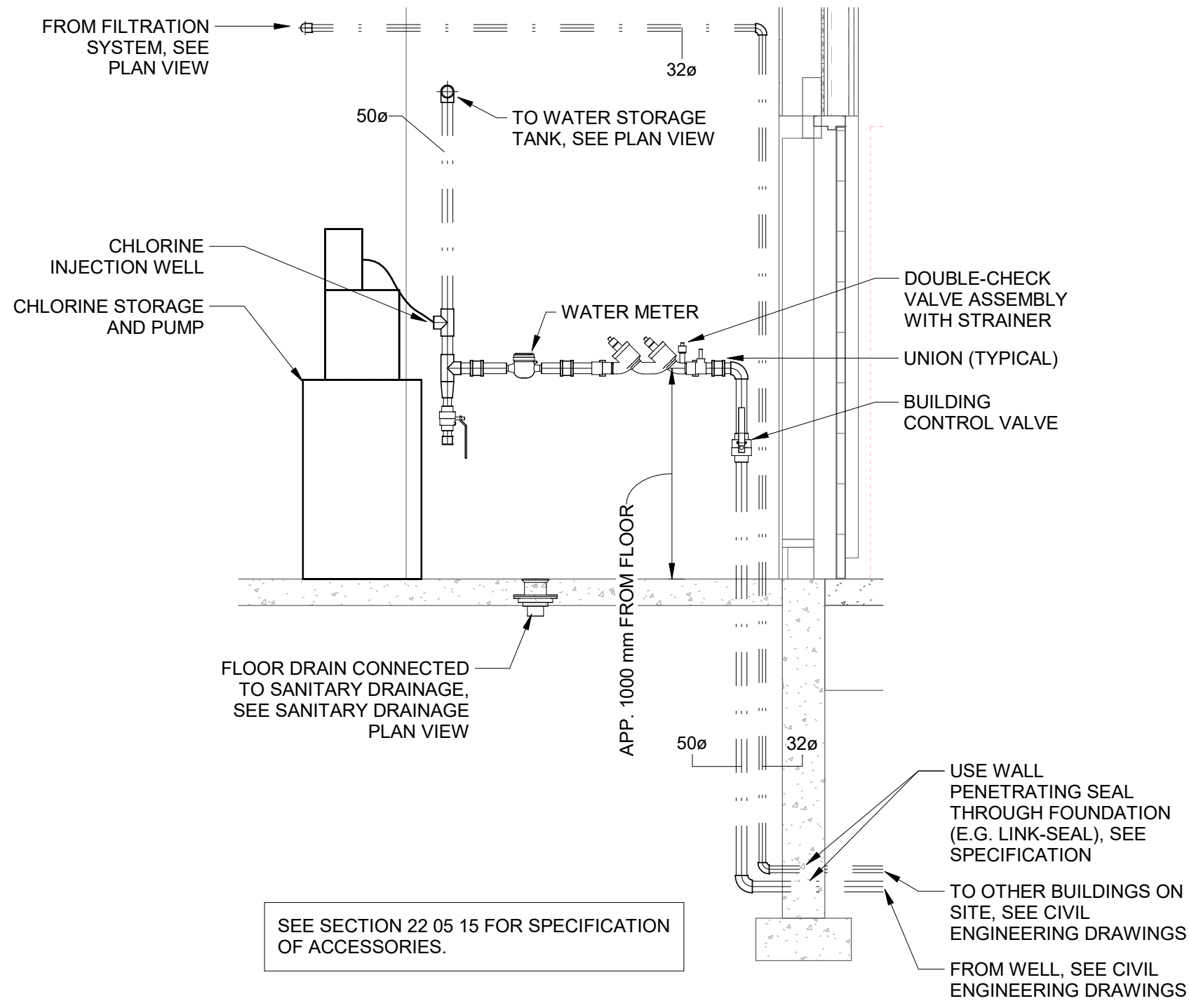
SUSPENDED HOT WATER TANK DETAIL

SCALE: NTS



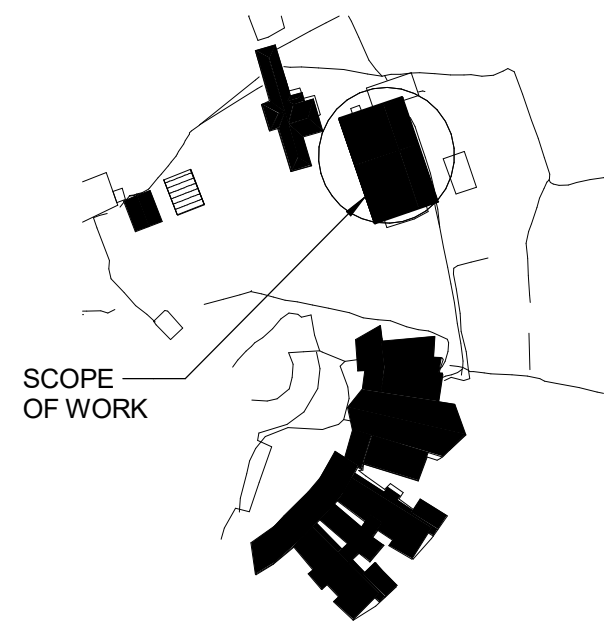
FILTRATION AND WATER HEATER DETAIL

SCALE:



INCOMING WATER DETAIL

SCALE: 1 : 25

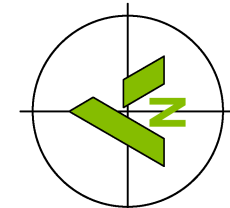


SITE PLAN

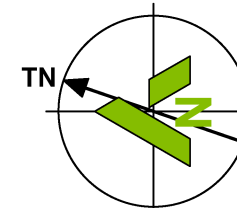
NTS

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A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG

STAMPS:



PROJECT NORTH



TRUE NORTH

ENGINEER:



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T 905.697.4464 F 905.697.0443
www.cima.ca

CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

DETAILS - PLUMBING

DISCIPLINE:

MECHANICAL

DRAFTER:

JPCA

DESIGNER:

JPCA

APPROVER:

JSG

PROJECT No:

Z0020853

SHEET No:

7 of 11

SCALE:

AS NOTED

DATE:

2026-07-30

CHECKER:

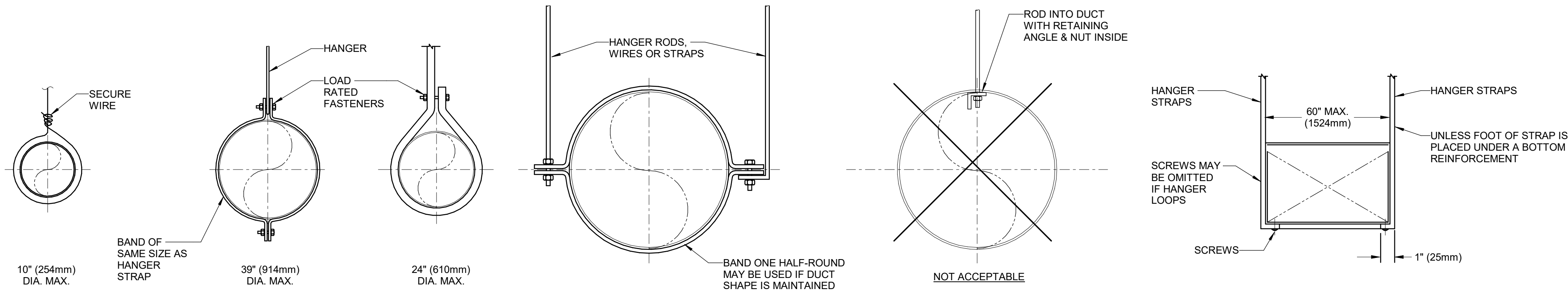
EPJ

DRAWING No:

M-501

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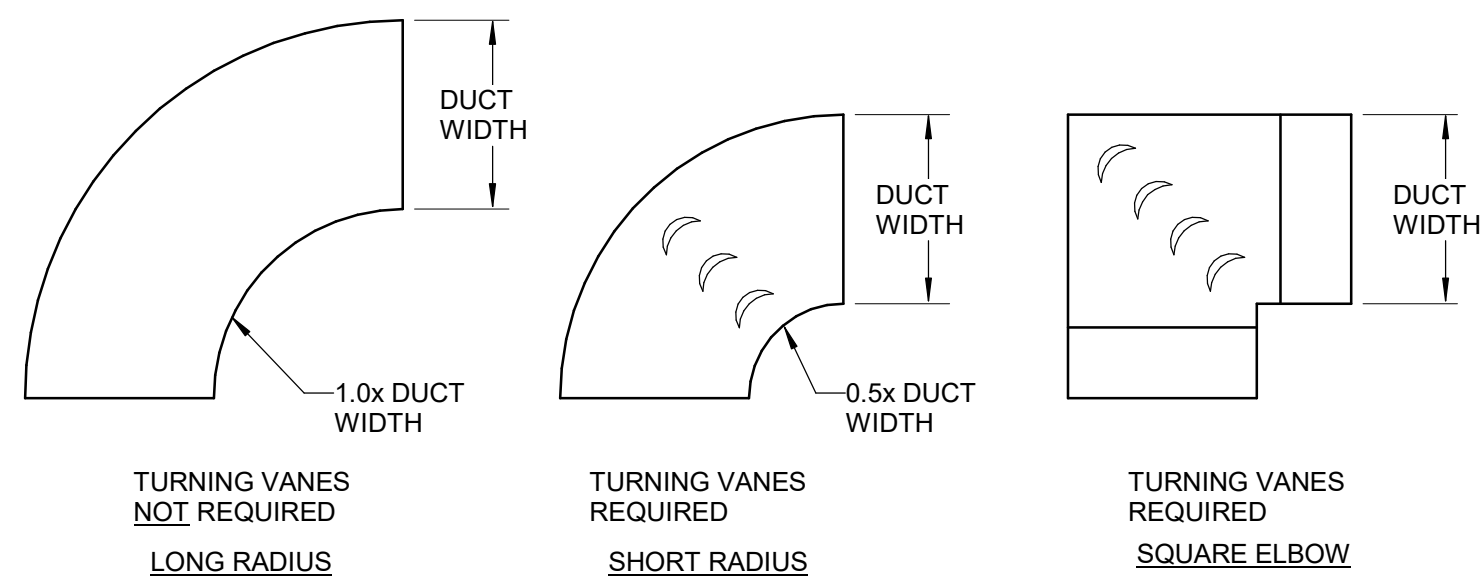
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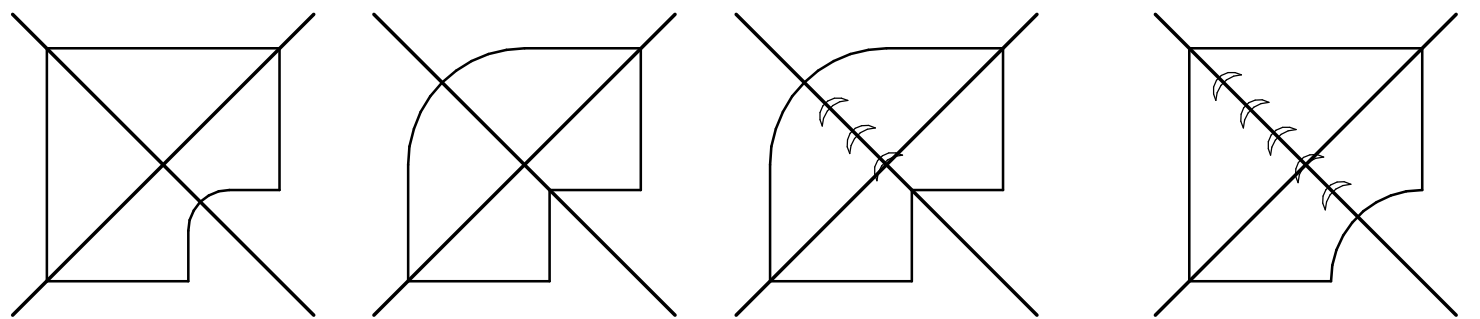
NOTE:
HANGERS MUST NOT DEFORM DUCT SHAPE

1 STRAP HANGERS

SCALE: NTS

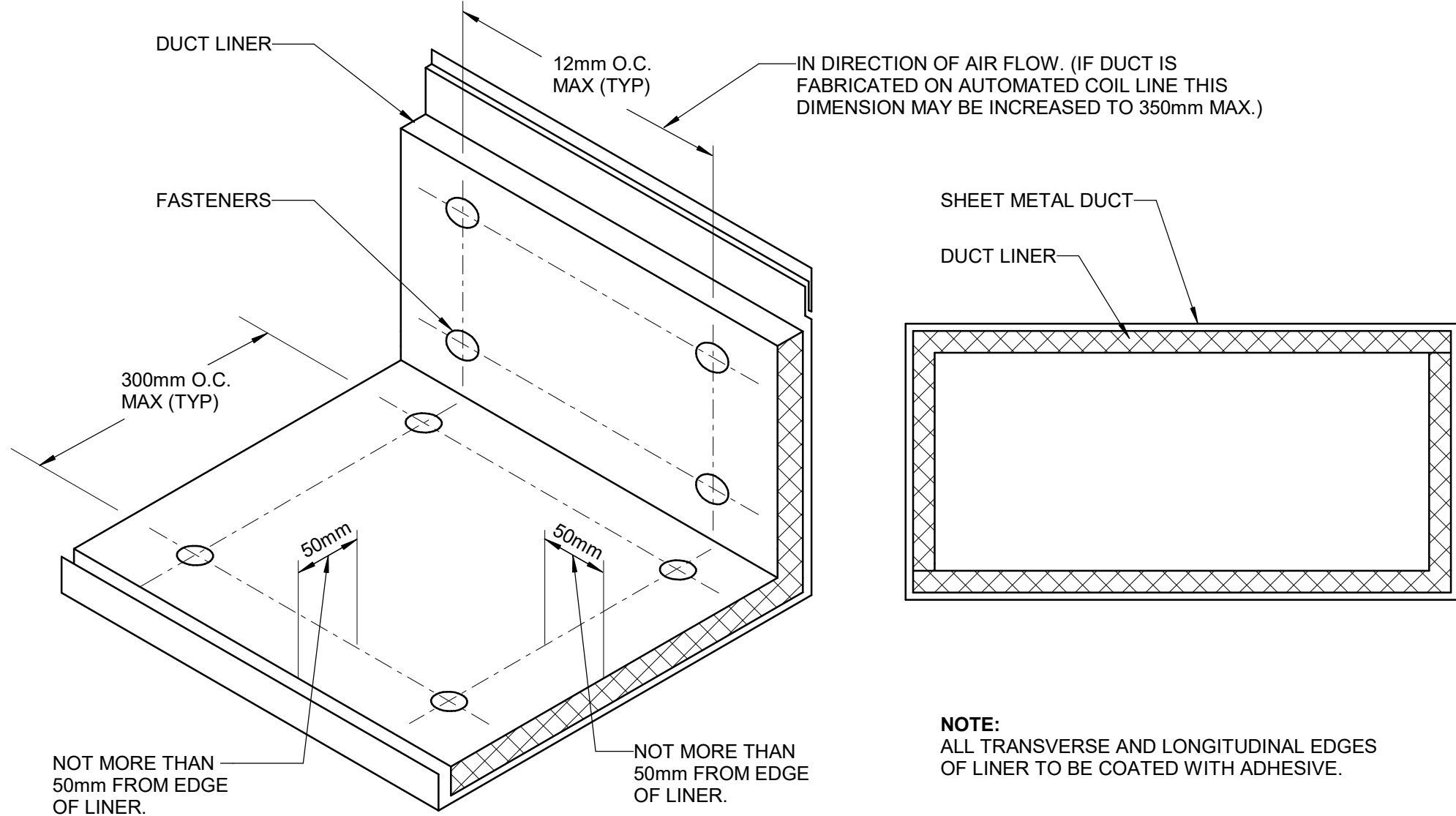


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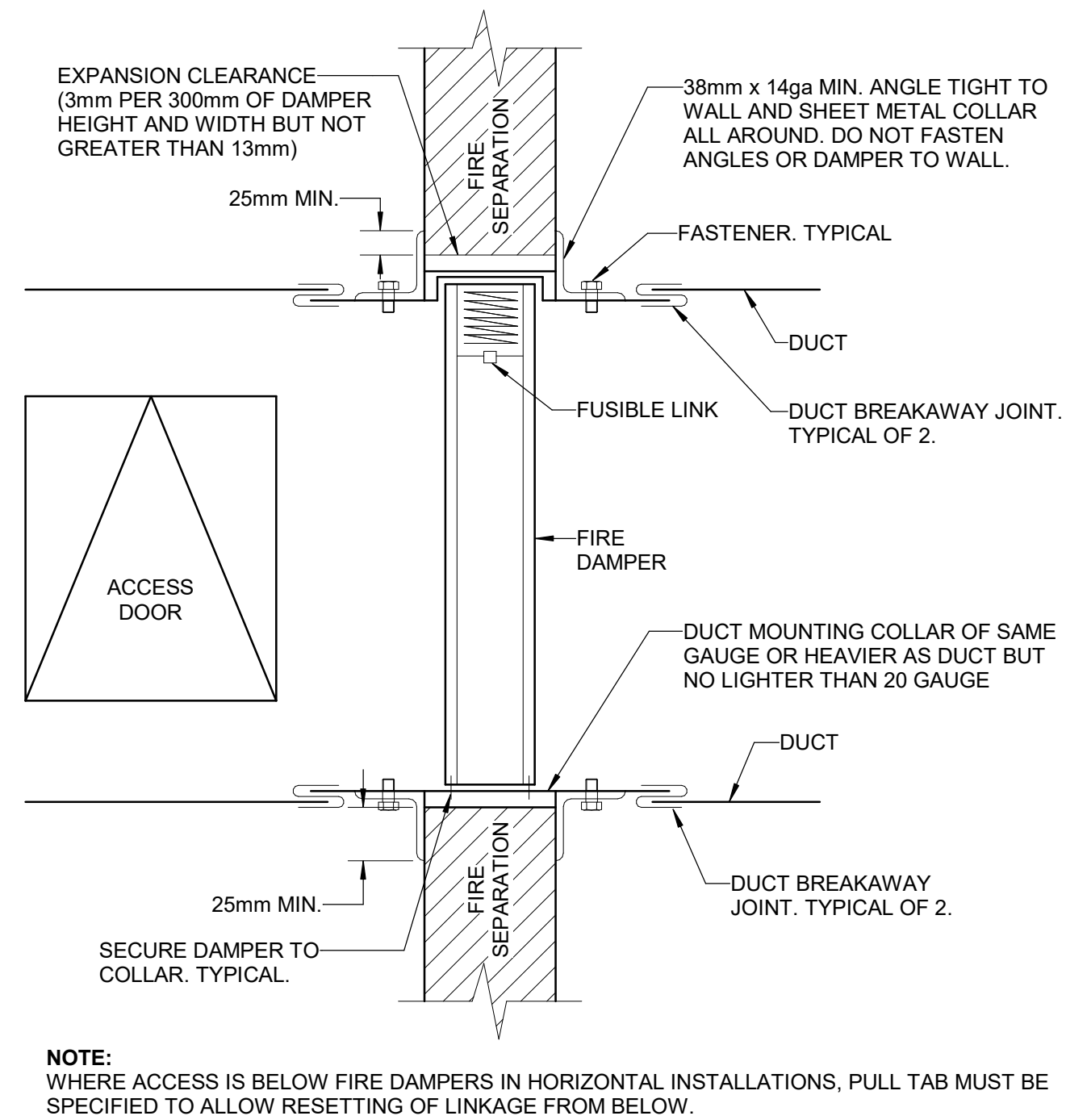
2 DUCT ELBOW

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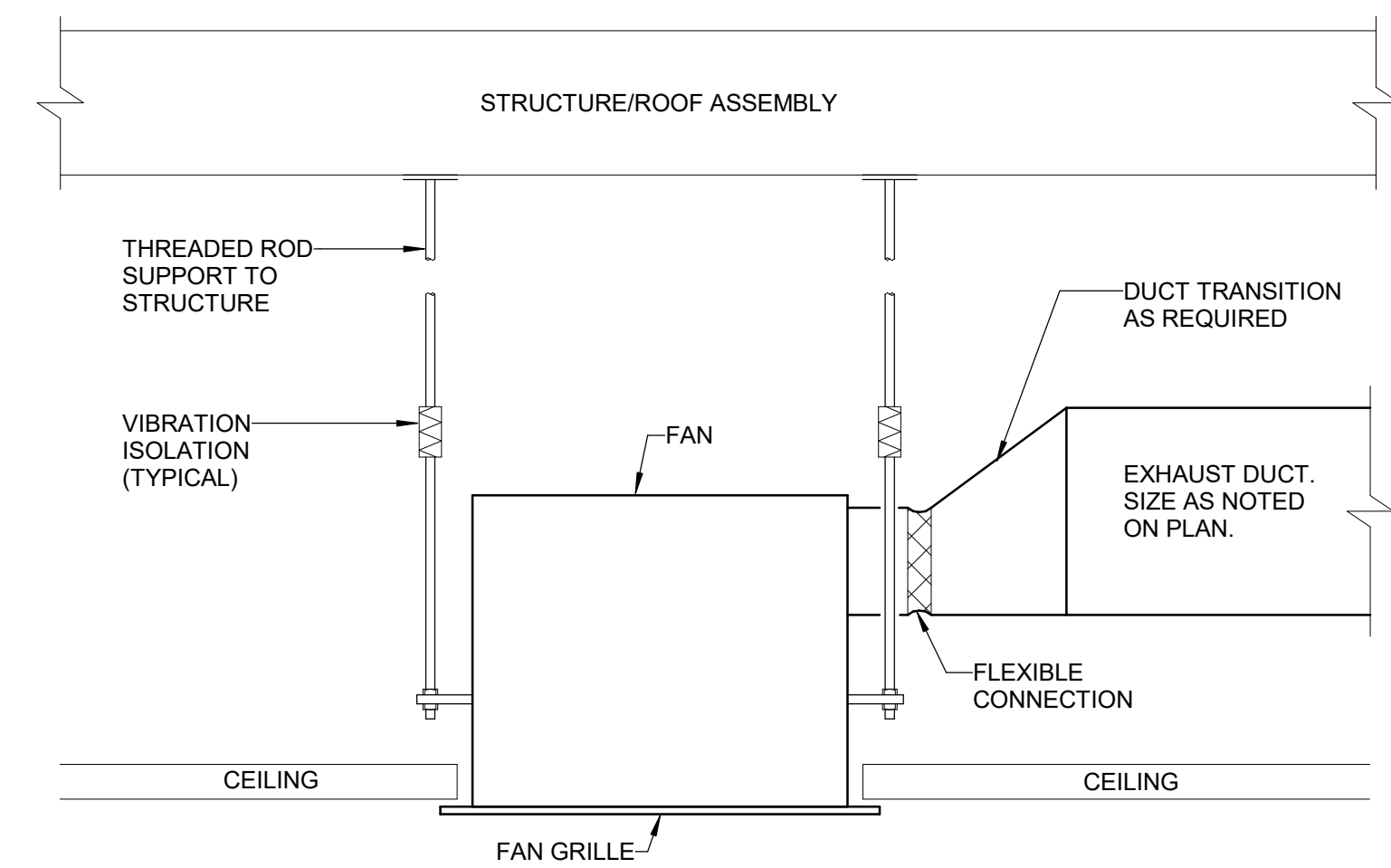
3 DUCT LINER

SCALE: NTS



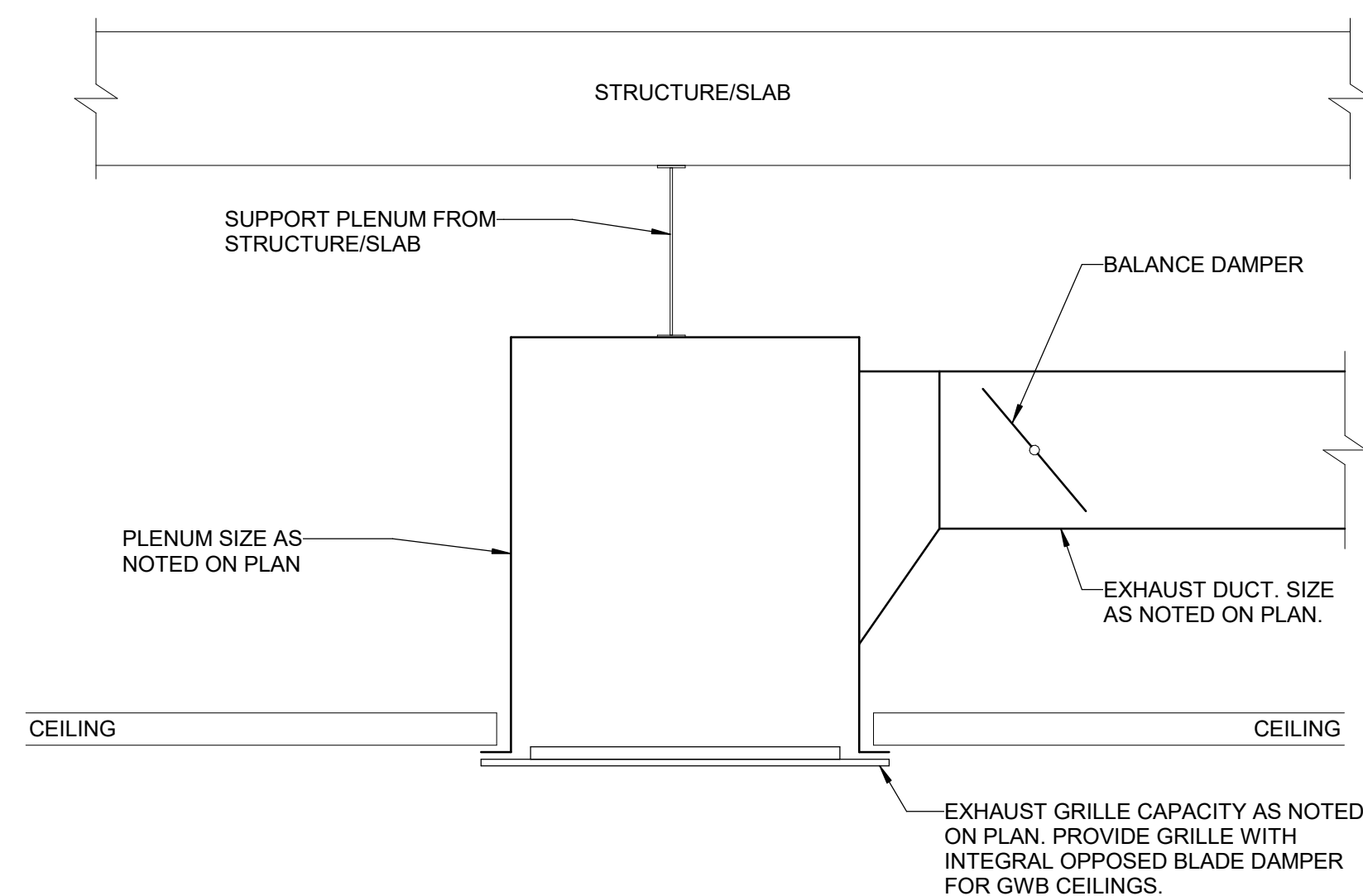
4 FIRE DAMPER

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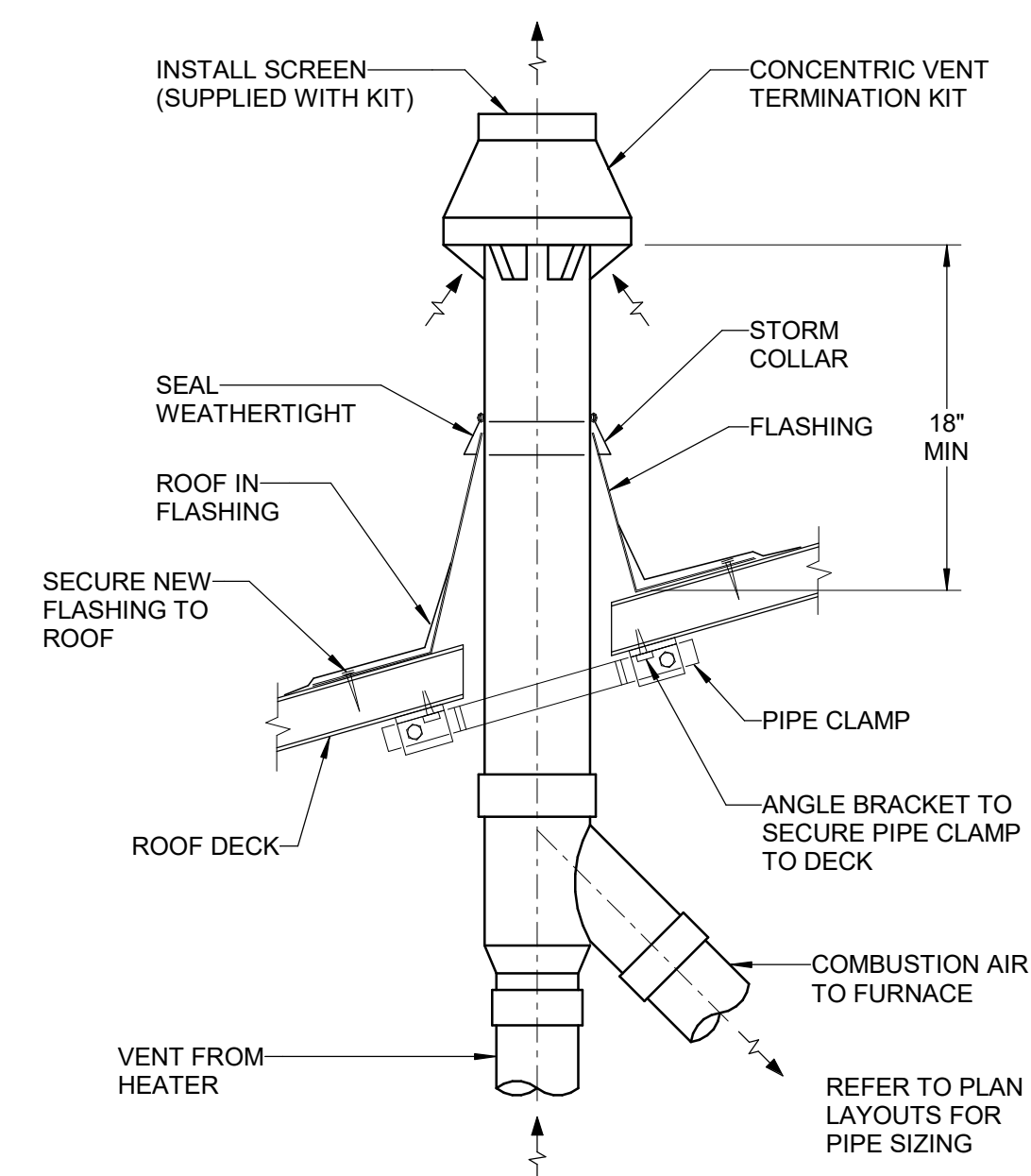
5 CEILING MOUNTED EXHAUST FAN

SCALE: NTS



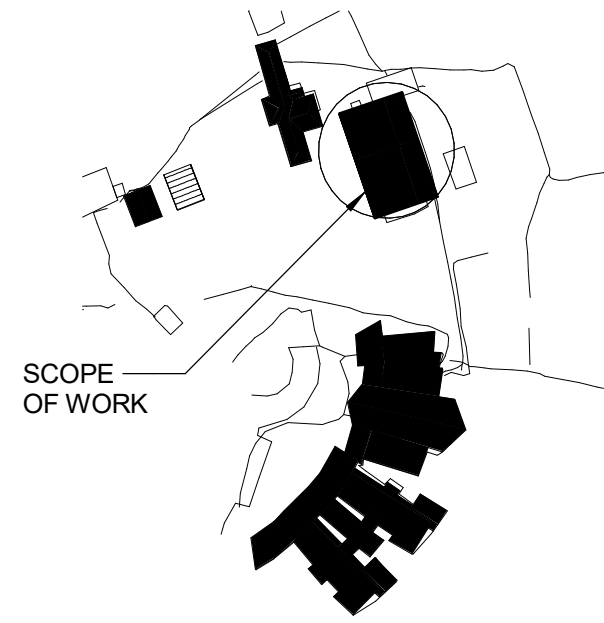
6 CEILING EXHAUST PLENUM DETAIL

SCALE: NTS



7 CONCENTRIC VENT TERMINATION KIT THROUGH ROOF

SCALE: NTS

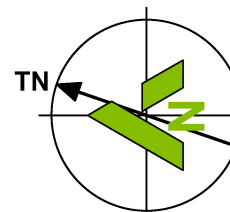
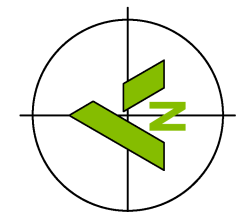


SITE PLAN

NTS

No.	Date	Description	By
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STAMPS:



ENGINEER:

CIMA+

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www.cima.ca

CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

DETAILS - HVAC

DISCIPLINE:

MECHANICAL

DRAFTER:

JPCA

DESIGNER:

JPCA

APPROVER:

JSG

PROJECT No:

Z0020853

SHEET No:

8 of 11

SCALE:

AS NOTED

DATE:

2026-07-30

CHECKER:

EPJ

DRAWING No:

M-502

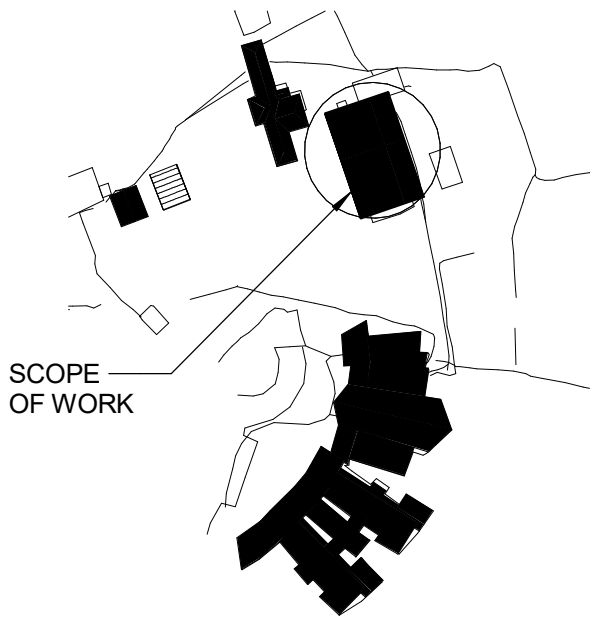
PLUMBING ACCESSORY SCHEDULE					
TAG	TYPE	LOCATION	MANUFACTURER	MODEL	DESCRIPTION
CW-1	WATER STORAGE TANK	UTILITY ROOM (012)	PERCHERON PLASTIC	VT0300-42	- ROTOMOLDED VERTICAL TANK FOR POTABLE WATER STORAGE - MANUFACTURED FROM POLYETHYLENE WITH UV INHIBITORS - 300-GAL CAPACITY - LEVEL SENSOR FOR WELL PUMP CONTROL - CERTIFIED TO NSF/ANSI 61
GI-1	GREASE INTERCEPTOR	UTILITY ROOM (012)	CAN-AQUA	CA-SG25-S	- POLYPROPYLENE GREASE INTERCEPTOR - FOR ABOVE GROUND INSTALLATION - 25 GPM CAPACITY - CERTIFIED TO CSA B481
HB-1	HOSE BIBB	OUTDOOR WALL	WATTS	HY-725	- CONCEALED NON-FREEZE, KEY OPERATED WALL HYDRANT - 3/4" HOSE CONNECTION - NICKEL BRONZE BOX AND DOOR - INTEGRAL VACUUM BREAKER - SELF-DRAINING CONFORM TO ASME B1.20.7 AND ASSE 1019
TSP-1	ELECTRONIC TRAP SEAL PRIMER	UTILITY ROOM (012)	ZURN	Z1020XL-10	- ELECTRONIC TRAP SEAL PRIMER - RECESSED HOUSING AND COVER - INTEGRAL VACUUM BREAKER - CONNECTORS FOR 10 FLOOR DRAIN
WFS-1	WATER FILTER SYSTEM	UTILITY ROOM (012)	CULLIGAN	CTM-DF24	- COMMERCIAL-GRADE, TOP-MOUNT WATER FILTER SYSTEM - SERVICE FLOW RATE OF 32 GPM (121 L/min.) @ 5 PSI DROP - 2" INLET, OUTLET AND DRAIN - MINIMUM INLET PRESSURE 35 PSIG - CERTIFIED NSF/ANSI 61 AND 372
UV-1	UV LAMP	UTILITY ROOM (012)	WATTS	UV-COM C222C	- UV LAMP FILTER FOR DOMESTIC WATER SYSTEM - MAX FLOW RATE OF 27.4 GPM - 222 W, LPHO-TYPE LAMP - CERTIFIED TO NSF/ANSI 55 CLASS A
HPT-1	HYDROPNEUMATIC TANK	UTILITY ROOM (012)	CALEFACTIO	AFX500	- STEEL HYDROPNEUMATIC TANK FOR USE WITH POTABLE WATER - 132 GAL VOLUME, 2" CONNECTOR - REPLACEABLE HEAVY DUTY BUTYL BLADDER - CSA-APPROVED AND CERTIFIED TO NSF61, DESIGNED IN ACCORDANCE WITH ASME SECTION VIII

WATER HEATER SCHEDULE							
TAG	LOCATION	MANUFACTURER	MODEL	ELEMENTS (kW)	VOLTAGE	STORAGE VOLUME	REMARKS
WH-1	UTILITY ROOM (012)	GIANT	119SE01-1R5M	1.5	120/1/60	72 L	- INSULATED TANK - SET TO 60°C - INTEGRAL MAGNESIUM ANODE - MEETS NRCan ENERGY EFFICIENCY STANDARDS - MEETS CSA 22.2 CONSTRUCTION STANDARDS

PLUMBING PUMP SCHEDULE										
TAG	LOCATION	MANUFACTURER	MODEL	RATED POWER	RATED VOLTAGE	FLUID	RATED SPEED	FLOW	HEAD	REMARKS
PP-1	UTILITY ROOM (012)	GRUNDFOS	CM 3-5 A-S-A-E-AQQE B-A-A-N	1.5 HP	240/1/60	DOMESTIC COLD WATER, 68°F	3320 RPM	20 GPM	120 ft H2O	- STAINLESS STEEL IMPELLER - COMPATIBLE WITH POTABLE WATER USE (NSF 61 / UL 372) - CONNECTED TO LEVEL SENSOR ON STORAGE TANK

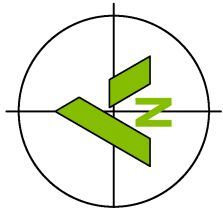
PLUMBING FIXTURE SCHEDULE				
TAG	FIXTURE	MANUFACTURER	MODEL	DESCRIPTION
FD-1	FLOOR DRAIN	WATTS	FD-200	- FLOOR DRAIN FOR FINISHED AREAS - EPOXY-COATED CAST IRON BODY - PIPE SIZE AS INDICATED ON DRAWINGS - NICKEL BRONZE, HEAVY DUTY, 127 mmØ, 13-mm THICK STRAINER - VANDAL PROOF - TRAP PRIMER CONNECTION WITH PLUG
FD-2	FUNNEL FLOOR DRAIN	WATTS	FD-200-EG	- FLOOR DRAIN FOR FINISHED AREAS - EPOXY-COATED CAST IRON BODY - PIPE SIZE AS INDICATED ON DRAWINGS - NICKEL BRONZE, HEAVY DUTY, 127 mmØ, 13-mm THICK STRAINER WITH OVAL FUNNEL - VANDAL PROOF - TRAP PRIMER CONNECTION WITH PLUG
LAV-1	LAVATORY - WALL-MOUNTED	AMERICAN STANDARD	LUCERNE 0355.012	- VITREOUS CHINA, WALL-MOUNTED LAVATORY - NOMINAL DIMENSIONS: 540 x 464 mm - COMPATIBLE WITH CONCEALED ARMS SUPPORT - FAUCET HOLES ON 102 mm CENTERS - FRONT OVERFLOW AND SELF-DRAINING DECK AREA - COMPATIBLE WITH BARRIER-FREE INSTALLATION - CONFORM TO CSA B45.1
	LAVATORY FAUCET	MOEN	8886	- 102-mm CENTERSET, CHROME-PLATED SOLID BRASS METERING FAUCET - 130-mm SPOUT - ACCESSIBLE, LEVER-STYLE HANDLES WITH HOT AND COLD INDICATORS - VANDAL RESISTANT - ADJUSTABLE 5-60 SECONDS CYCLE TIME - 1.9 L/min. LAMINAR FLOW - CONFORM TO CSA B125.1
	THERMOSTATIC MIXING VALVE	LAWLER	TMM-1070	- MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP - FOR POINT OF USE INSTALLATION - WITH INTEGRAL CHECK VALVES - ADJUSTED TO 43°C (110°F) - CONFORM TO CSA B125.3 AND ASSE 1070
	WALL HANGER	WATTS	CA-411-WC	- FLOOR-MOUNTED SUPPORT WITH CONCEALED ARMS FOR WALL-MOUNTED LAVATORY - COMPATIBLE WITH BARRIER-FREE LAVATORY INSTALLATION

PLUMBING FIXTURE SCHEDULE (CONTINUED)				
TAG	FIXTURE	MANUFACTURER	MODEL	DESCRIPTION
LAV-2	LAVATORY - WALL-MOUNTED	AMERICAN STANDARD	LUCERNE 0355.012	- VITREOUS CHINA, WALL-MOUNTED LAVATORY - NOMINAL DIMENSIONS: 540 x 464 mm - COMPATIBLE WITH CONCEALED ARMS SUPPORT - FAUCET HOLES ON 102 mm CENTERS - FRONT OVERFLOW AND SELF-DRAINING DECK AREA - COMPATIBLE WITH BARRIER-FREE INSTALLATION - CONFORM TO CSA B45.1
	LAVATORY FAUCET	MOEN	8886	- 102-mm CENTERSET, CHROME-PLATED SOLID BRASS METERING FAUCET - 130-mm SPOUT - ACCESSIBLE, LEVER-STYLE HANDLES WITH HOT AND COLD INDICATORS - VANDAL RESISTANT - ADJUSTABLE 5-60 SECONDS CYCLE TIME - 1.9 L/min. LAMINAR FLOW - CONFORM TO CSA B125.1
	THERMOSTATIC MIXING VALVE	LAWLER	TMM-1070	- MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP - FOR POINT OF USE INSTALLATION - WITH INTEGRAL CHECK VALVES - ADJUSTED TO 43°C (110°F) - CONFORM TO CSA B125.3 AND ASSE 1070
	WALL HANGER	WATTS	CA-411-D-WC	- FLOOR-MOUNTED SUPPORT WITH CONCEALED ARMS FOR WALL-MOUNTED LAVATORY - COMPATIBLE WITH BARRIER-FREE LAVATORY INSTALLATION - FOR BACK-TO-BACK LAVATORIES
SK-1	TRIPLE BOWL SINK	FRANKE	LBT6410PCB-1-3	- TRIPLE SINK - 18 GAUGE, TYPE 304 STAINLESS STEEL - FAUCET HOLES ON 203 mm CENTERS - NOMINAL DIMENSIONS: 1178 x 522 mm - BOWL DEPTH: 254 mm - CENTRE BACK WASTE WITH 89-mm CRUMB CUP STRAINER - CONFORM TO CSA B45.4
	SINK FAUCET	DELTA	TECK 26C3233-S8	- DECK-MOUNTED, HEAVY-DUTY BRASS KITCHEN FAUCET - 366-mm TUBULAR SWING SPOUT - 5.7 L/min. FLOW RATE - COLOUR-CODED 76-mm METAL HANDLES WITH VANDAL-RESISTANT SCREWS - CONFORM TO CSA B125.1
SK-2	HANDWASHING SINK	FRANKE KINDRED	QSL1515-6-1	- STAINLESS STEEL HANDWASHING SINK - COUNTERTOP INSTALLATION - SINGLE FAUCET HOLE - NOMINAL DIMENSIONS: 380 x 390 mm - BOWL DEPTH: 150 mm - CENTRE WASTE WITH 89-mm CRUMB CUP STRAINER - CONFORM TO CSA B45.4
	SINK FAUCET	DELTA	1953LF	- DECK-MOUNTED, BAR-STYLE SINK FAUCET - 137-mm GOOSENECK SPOUT - CHROME-PLATED SOLID BRASS BODY - SINGLE HANDLE, FOR SINGLE HOLE MOUNT - CONFORM TO CSA B125.1
U-1	URINAL - WALL-MOUNTED	AMERICAN STANDARD	WASHBROOK FLOWISE 6590.001	- VITREOUS CHINA, WALL-MOUNTED URINAL - COMPATIBLE WITH 1.9 L/FLUSH, 3/4" TOP-MOUNTED FLUSH VALVE - CONFORM TO CSA B45.1 - ADA COMPLIANT
	FLUSH VALVE	AMERICAN STANDARD	ULTIMA 6045.051.002	- MANUAL PISTON FLUSH VALVE FOR WALL-MOUNTED, TOP SPUD URINAL - 3/4" ANGLE STOP WITH BACKFLOW PREVENTION AND VANDAL-RESISTANT CAP - 1.9 L/FLUSH - HEAVY-DUTY BRASS CONSTRUCTION - CHLORAMINE-RESISTANT EPDM SEALS - CONFORM TO ASSE 1037 AND ADA COMPLIANT
	WALL HANGER	WATTS	CA-421-2	- FLOOR-MOUNTED PLATE-TYPE SUPPORT FOR WALL-MOUNTED URINAL - WITH LOWER SUPPORT PLATE
WC-1	TOILET	AMERICAN STANDARD	CADET 2467.016	- VITREOUS CHINA TOILET - PRESSURE-ASSISTED, INSULATED FLUSH TANK, 4.8 OR 4.2 L/FLUSH - ELONGATED BOWL - TAMPERING-RESISTANT BOLTS, BOLT CAPS AND FLOOR FLANGE - CONFORM TO CSA B45.1
	SEAT	CENTOCO	AM500STSCC-407	- COMMERCIAL, HEAVY-DUTY TOILET SEAT - OPEN FRONT - FOR ELONGATED BOWL - COMMERCIAL-GRADE STAINLESS STEEL HINGES - ANTIMICROBIAL TREATMENT
WC-2	TOILET - BARRIER-FREE	AMERICAN STANDARD	CADET 2467.016	- VITREOUS CHINA TOILET - PRESSURE-ASSISTED, INSULATED FLUSH TANK, 6 L/FLUSH - ELONGATED BOWL - VANDAL RESISTANT BOLTS, BOLT CAPS AND FLOOR FLANGE - 419 mm HEIGHT FOR ACCESSIBILITY - CONFORM TO CSA B45.1
	SEAT	CENTOCO	AM820STSS-001	- COMMERCIAL, HEAVY-DUTY TOILET SEAT - OPEN FRONT WITH COVER - FOR ELONGATED BOWL - SELF-SUSTAINING - COMMERCIAL-GRADE STAINLESS STEEL HINGES - ANTIMICROBIAL TREATMENT

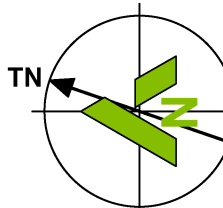


SITE PLAN
NTS

C	2026-07-30	ISSUED FOR TENDER	JSG
B	2026-05-20	ISSUED FOR PERMIT	JSG
A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG
No.	Date	Description	By



PROJECT NORTH



TRUE NORTH

ENGINEER:


415 Baseline Road West
Bowmanville, ON L1C 5M2
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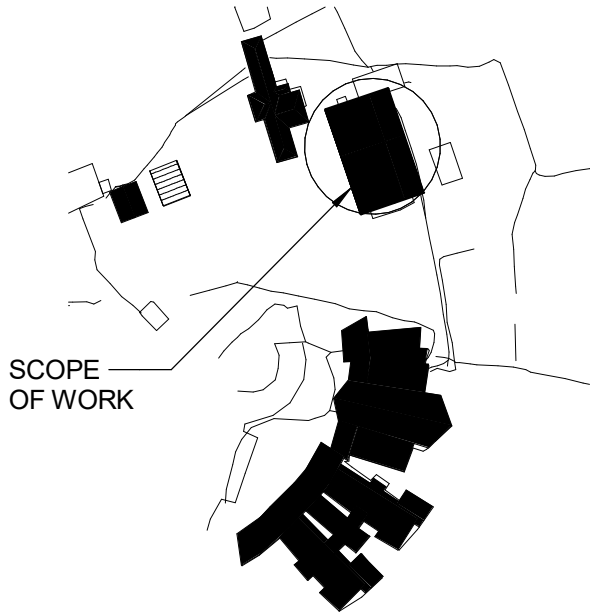
PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
SCHEDULES - PLUMBING

DISCIPLINE:
MECHANICAL

DRAFTER: JPCA	SCALE: AS NOTED
DESIGNER: JPCA	DATE: 2026-07-30
APPROVER: JSG	CHECKER: EPJ
PROJECT No.: Z0020853	DRAWING No.: M-601
SHEET No.: 9 of 11	

GAS FIRED FURNACE SCHEDULE																														
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	SUPPLY FAN								HEATING INPUT		HEATING OUTPUT		ELECTRICAL				DIMENSIONS						WEIGHT		COMMENTS	
					FLOW		MIN. F/A		E.S.P.		POWER						FAN MOTOR	V/Ph/Hz	FAN MCA	FLA	MOCP	LENGTH		WIDTH		HEIGHT				
					(CFM)	(L/S)	(CFM)	(L/S)	(in.H2O)	(Pa)	(HP)	(kW)	TYPE	(MBH)	(kW)	(MBH)	(kW)		(A)	(A)	(A)	(INCH)	(mm)	(INCH)	(mm)	(INCH)	(mm)	(LBS)		(Kg)
GF-1	MULTI-PURPOSE ROOM WEST	UTILITY ROOM	CARRIER	59TP6C080V21-20	2,400	1,133	400	189	0.5	124.4	1.0	0.7	DIRECT	80.0	23.4	78.0	22.9	120/1/60	11.5	13.1	20.0	21.0	533.4	29.5	749.3	35.0	889.0	160	73	SEE NOTES BELOW
GF-2	MULTI-PURPOSE ROOM EAST	UTILITY ROOM	CARRIER	59TP6C040V17-12	880	415	200	94	0.5	124.4	0.5	0.4	DIRECT	40.0	11.7	39.0	11.4	120/1/60	6.7	7.4	15.0	17.5	444.5	29.5	749.3	35.0	889.0	136	62	SEE NOTES BELOW
GF-3	OFFICE & GENERAL AREAS	UTILITY ROOM	CARRIER	59TP6C080V21-20	1,835	866	245	116	0.5	124.4	1.0	0.7	DIRECT	80.0	23.4	78.0	22.9	120/1/60	11.5	13.1	20.0	21.0	533.4	29.5	749.3	35.0	889.0	160	73	SEE NOTES BELOW
NOTES: 1. UNIT C/W 7-DAY AUTO CHANGEOVER PROGRAMMABLE THERMOSTAT. 2. UNIT C/W DX COOLING COIL SECTION /W REMOTE CONDENSER. 3. PROVIDE UNIT MOUNTED DISCONNECT. 4. PROVIDE PROPANE KIT. 4. UPON CONSTRUCTION COMPLETION REPLACE FILTERS AND PROVIDE 1 SET OF SPARE FILTERS FOR EACH UNIT. 6. UNIT TO BE VERTICAL DISCHARGE. 7. SITE REQUIREMENTS, ADDITIONAL WORK AND EXTRA COSTS DUE TO THE SUPPLY OF ALTERNATE EQUIPMENT IS THE CONTRACTORS RESPONSIBILITY....																														

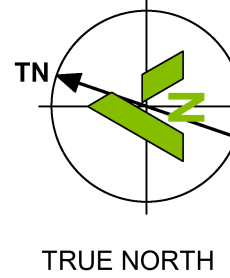
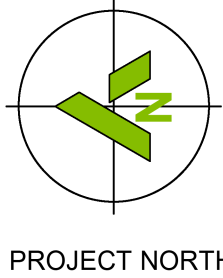


SITE PLAN
NTS

ENERGY RECOVERY VENTILATOR (ERV) UNIT SCHEDULE																							
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	FLOW		E.S.P.		MOTOR POWER			ELECTRICAL			DIMENSIONS						WEIGHT		COMMENTS
												V/Ph/Hz	FLA	MOCPP	LENGTH		WIDTH		HEIGHT				
					(CFM)	(L/S)	(in.H2O)	(Pa)	# OF MOTORS	(HP)	(kW)		(A)	(A)	(INCH)	(mm)	(INCH)	(mm)	(INCH)	(mm)	(LBS)	(Kg)	
ERV-1	MULTI-PURPOSE ROOM WEST	UTILITY ROOM	NU-AIR	NU500ERV	400	189	0.4	99.5	2 AT	0.2	0.15	120/1/60	4.4	15	36	914	23	584	17	432	80	36	SEE NOTES BELOW
ERV-2	MULTI-PURPOSE ROOM EAST	UTILITY ROOM	NU-AIR	SE182E	200	94	0.2	49.8	2 AT	0.1	0.07	120/1/60	280W	2.3A	29	737	22	559	17	432	40	18	SEE NOTES BELOW
ERV-3	OFFICE & GENERAL AREAS	UTILITY ROOM	NU-AIR	NU305ERV	250	118	0.4	99.5	2 AT	0.2	0.15	120/1/60	1.9	15	36	914	23	584	17	432	50	23	SEE NOTES BELOW
NOTES: 1. UNIT C/W ON/OFF 2 SPEED CONTROL. 2. UNIT C/W TIMECLOCK. 3. UNIT C/W DISCHARGE STAT AND REMOTE SETPOINT ADJUST. 4. SITE REQUIREMENTS, ADDITIONAL WORK AND EXTRA COSTS DUE TO THE SUPPLY OF ALTERNATE EQUIPMENT IS THE CONTRACTORS RESPONSIBILITY. 5. STANDARD OF ACCEPTANCE: NU-AIR, VENMAR, LIFE BREATH.																							

HEAT PUMP UNIT SCHEDULE													
TAG	SERVICE	MANUFACTURER	MODEL	EFFICIENCY	TONS	ELECTRICAL			DIMENSIONS			WEIGHT	COMMENTS
				SEER		V/Ph/Hz	RLA	MOCP	LENGTH	WIDTH	HEIGHT		
AC-1	GF-1 - MULTI-PURPOSE ROOM WEST	CARRIER	37MUHAQ60AA3	17.5	5	208/1/60	7.47	40	16.34 (415.04)	37.48 (951.99)	52.48 (1332.99)	240 (109)	SEE NOTES BELOW
AC-2	GF-2 - MULTI-PURPOSE ROOM EAST	CARRIER	37MUHAQ24AA3	18.4	2	208/1/60	4.15	20	13.46 (341.88)	35.04 (890.02)	26.5 (673.10)	103 (47)	SEE NOTES BELOW
AC-3	GF-3 - OFFICE & GENERAL AREAS	CARRIER	37MUHAQ48AA3	16.5	4	208/1/60	21.0	40	16.34 (415.04)	38.58 (979.93)	38.39 (975.11)	202 (92)	SEE NOTES BELOW
NOTES: 1. UNIT C/W CRANKCASE HEATER. 2. PROVIDE WALL MOUNTING BRACKETS. 3. SITE REQUIREMENTS, ADDITIONAL WORK AND EXTRA COSTS DUE TO THE SUPPLY OF ALTERNATE EQUIPMENT IS THE CONTRACTORS RESPONSIBILITY. 4. STANDARD OF ACCEPTANCE: CARRIER, LENNOX, TRANE, DAIKIN, YORK.													

FURNACE SYSTEM CONTROLS				
SYSTEM COMPONENTS AS FOLLOWS: MULTI-PURPOSE ROOM WEST: GF-1, ERV-1, AC-1 (SYSTEM TAG GF-1) MULTI-PURPOSE ROOM EAST: GF-2, ERV-2, AC-2 (SYSTEM TAG GF-2) GENERAL OFFICE AREA: GF-3, ERV-3, AC-3 (SYSTEM TAG GF-3)				
INITIAL PROGRAMMED THERMOSTAT SETTINGS				
OCCUPANCY MODE	HEATING SETPOINT	COOLING SETPOINT	SYSTEM MODE	FAN MODE
OCCUPIED	20°C	23°C	HEAT/COOL AUTO	FAN ON
UNOCCUPIED	16°C	26°C	HEAT/COOL AUTO	FAN AUTO
- CONFIRM OCCUPIED AND UNOCCUPIED HOURS WITH OWNER - CONFIRM HEATING AND COOLING SETPOINTS WITH OWNER - PROVIDE TRAINING TO OWNER FOR PROGRAMMABLE THERMOSTAT				
PROVIDE 7-DAY AUTO CHANGEOVER PROGRAMMABLE THERMOSTAT EQUAL TO HONEYWELL TB8220U FOR ALL SCHEDULED EQUIPMENT AS INDICATED IN EQUIPMENT SCHEDULES				
MINIMUM REQUIRED THERMOSTAT CONTROL CAPABILITY				
SYSTEM TAG	GF-1, GF-2 & GF-3			
MINIMUM CONTROL CAPABILITY	- FAN ENABLE - HEAT STAGE 1 ENABLE - HEAT STAGE 2 ENABLE - COOLING ENABLE - OCCUPANCY/TIME OF DAY ENABLE C/W ERV INTERLOCK			
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING AT MINIMUM THE CONTROL CAPABILITY AS DETAILED IN THE TABLE ABOVE. - CONTRACTOR SHALL FOLLOW THERMOSTAT AND EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTION. COORDINATE WITH EACH MANUFACTURER TO ENSURE A FULLY OPERATIONAL SYSTEM. - OCCUPANCY/TIME OF DAY CONTACTS FROM GF PROGRAMMABLE THERMOSTATS SHALL BE INTERLOCKED TO ASSOCIATED ERV OCCUPANCY RUN ENABLE AND SPEED SELECTION. - ON AN OCCUPANCY SIGNAL FROM THERMOSTAT, ERV SHALL BE ENABLED THROUGH THE OCCUPANCY ENABLE CONTACT. - ERV FAN SPEED SHALL DEFAULT TO LOW SPEED. ON AN OCCUPANCY SIGNAL FROM THERMOSTAT, ERV SHALL BE COMMANDED TO HIGH SPEED. - PROVIDE RELAYS, TRANSFORMERS, INTERLOCK WIRING, ENCLOSURE AND ACCESSORIES AS REQUIRED TO ENSURE FULLY OPERATIONAL SYSTEM. - CONTRACTOR SHALL NOTE AND COMPLY WITH CONTROL TRANSFORMER CAPACITY RESTRICTIONS AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.				



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PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
SCHEDULES & CONTROLS - HVAC

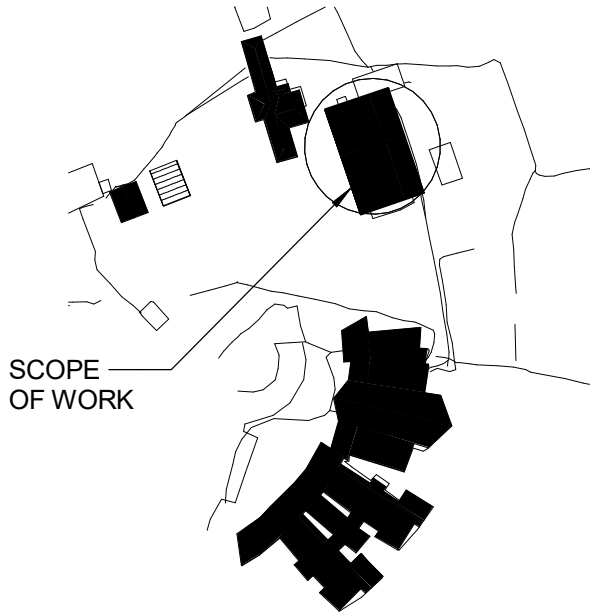
DISCIPLINE:
MECHANICAL

DRAFTER: SR	SCALE: AS NOTED
DESIGNER: EPJ	DATE: 2026-07-30
APPROVER: JSG	CHECKER: EPJ
PROJECT No: Z0020853	DRAWING No: M-602
SHEET No: 10 of 11	

FAN SCHEDULE																
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	TYPE	CAPACITY		STATIC PRESSURE		MOTOR SIZE POWER		FAN	ELECTRICAL	WEIGHT		COMMENTS
						CFM	L/s	in. H2O	Pa	HP	kW			lbs	kg	
F-1	UNIVERSAL WASHROOM	UNIVERSAL WASHROOM	GREENHECK	CSP-A110	CLG MTD	100	47	0.125	31.11	0.17	0.13	950	120V/1PH/60	20	9	WIRED THRU LIGHT SWITCH, C/W CEILING GRILLE
F-2	KITCHEN EXHAUST	UNDER UPPER CABINET	BROAN	BXT130WWC	RANGE HOOD	150	127	0.2	50.00	0.2	0.15	700	120V/1PH/60	20	9	COORDINATE COLOUR WITH ARCHITECT. BUILT-IN LED LIGHTING. 7" ROUND DAMPER AND DUCT TRANSITION. ALUMINUM EXHAUST WALL CAP.
F-3	IT ROOM VENTILATION	IT ROOM	GREENHECK	CSP-A110	CLG MTD	100	47	0.125	31.11	0.17	0.13	950	120V/1PH/60	20	9	CONTINUOUS OPERATION
F-4	DESTRATIFICATION FAN	MULTI-PURPOSE ROOM WEST	BIG ASS FANS	j6 INDOOR CEILING FAN	SUSPENDED	17405	8214			39.8W		110	120V/1PH/60	38	17	INDOOR. 84" DIA. WITHOUT LIGHT KIT. FAN C/W WIRELESS WALL CONTROLLER. HANGER ROD LENGTH FOR EACH FAN TO BE VERIFIED ON SITE. COLOUR: COORDINATE WITH ARCHITECT
NOTES: 1. PROVIDE LOCAL DISCONNECTS AND STARTERS FOR ALL FANS. 2. FANS TO BE COMPLETE WITH BACKDRAFT DAMPERS. 3. STANDARD OF ACCEPTANCE: COOK, GREENHECK AND TWIN CITY - DESTRATIFICATION FANS: BIG ASS FANS, MACROAIR																

ELECTRIC HEATER SCHEDULE																	
TAG	LOCATION / AREA SERVED	MANUFACTURER	MODEL	TYPE	AIR OUTPUT		WIDTH		DEPTH		HEIGHT		SHIPPING WEIGHT		ELECTRICAL		REMARKS
					L/s	CFM	mm	in	mm	in	mm	in	kg	lbs	V/PHz	kW	
EH-1	STORAGE ROOM	STELPRO	WF	WALL FAN HEATER	76	160	406	16	102	4	584	23	9	20	120/1/60	1.5	C/W SURFACE MOUNTING BRACKETS, EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
EH-2	UNIVERSAL WASHROOM	STELPRO	WF	WALL FAN HEATER	76	160	406	16	102	4	584	23	9	20	208/1/60	2.0	C/W SURFACE MOUNTING BRACKETS, EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
EH-3	FLEX SPACE	STELPRO	WF	WALL FAN HEATER	76	160	406	16	102	4	584	23	9	20	120/1/60	1.5	C/W SURFACE MOUNTING BRACKETS, EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
EH-4	FLEX SPACE	STELPRO	WF	WALL FAN HEATER	76	160	406	16	102	4	584	23	9	20	120/1/60	1.5	C/W SURFACE MOUNTING BRACKETS, EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
EH-5	VESTIBULE	STELPRO	WF	WALL FAN HEATER	76	160	406	16	102	4	584	23	9	20	208/3/60	3.0	RECESSED MOUNTED C/W EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
EH-6	OFFICE	STELPRO	WF	WALL FAN HEATER	76	160	406	16	102	4	584	23	9	20	120/1/60	1.5	C/W SURFACE MOUNTING BRACKETS, EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
EH-7	KITCHEN	STELPRO	WF	WALL FAN HEATER	76	160	406	16	102	4	584	23	9	20	120/1/60	1.5	C/W SURFACE MOUNTING BRACKETS, EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
EH-8	WASHROOMS	STELPRO	PULSAIR RWF	WALL FAN HEATER	19	40	406	16	559	22	457	18	3	7	120/1/60	0.5	RECESSED MOUNTED VERTICAL UP FLOW C/W EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
UH-1	UTILITY ROOM	STELPRO	RUH - OXFORD	WALL MOUNT WITH BRACKET	165	350	330	13	305	12	330	13	9	20	240/1/60	3.0	C/W WALL MOUNTING BRACKET, EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT AT 2400mm AFF - CONTROLLED BY REMOTE THERMOSTAT
BB-1	MULTI-PURPOSE ROOM	STELPRO	SCAS	BASEBOARD	0	0	1219	48	76	3	152	6	8	17	120/1/60	0.6	FLOOR MOUNTED WITH PEDESTAL IT C/W EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
BB-2	MULTI-PURPOSE ROOM	STELPRO	SCAS	BASEBOARD	0	0	2692	106	76	3	152	6	11	24	208/1/60	2.5	FLOOR MOUNTED WITH PEDESTAL IT C/W EPOXY-POLYESTER POWDERCOAT, COLOUR WHITE - THERMAL PROTECTION WITH AUTO RESET - MOUNT MIN. 100mm AFF - CONTROLLED BY BUILT-IN THERMOSTAT
NOTES: 1. STANDARD OF ACCEPTANCE: STELPRO, OULETTE AND CHROMALOX 2. SURFACE FINISHING SHALL BE REVIEWED AND APPROVED BY ARCHITECTS. 3. UNIT HEATER SHALL BE COMPLETE WITH LOW-VOLTAGE REMOTE THERMOSTAT. 4. ALL ELECTRIC HEATERS SHALL BE COMPLETE WITH STARTERS AND DISCONNECT SWITCHES.																	

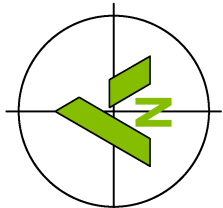
GRILLES, REGISTERS AND DIFFUSERS SCHEDULE							
TAG	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	FINISH	MOUNTING	COMMENTS
A	DOUBLE DEFLECTION SUPPLY REGISTER	E.H. PRICE	520D	STEEL	PRIMED	SURFACE	19mm (3/4") BLADE SPACING, WITH INTEGRAL DAMPER - SIDEWALL MOUNTED WITH SPIRAL DUCT ADAPTER FOR RECTANGULAR GRILLE
B	DOUBLE DEFLECTION SUPPLY REGISTER	E.H. PRICE	520D	STEEL	PRIMED	DUCT	19mm (3/4") BLADE SPACING, WITH INTEGRAL DAMPER - DUCT MOUNTED WITH SPIRAL DUCT ADAPTER FOR RECTANGULAR GRILLE
C	SINGLE DEFLECTION RETURN GRILLE	E.H. PRICE	530D	STEEL	PRIMED	SURFACE	45 DEG. BLADE, 19mm (3/4") SPACING, COMPLETE WITH INTEGRAL DAMPER - DUCT MOUNTED WITH SPIRAL DUCT ADAPTER FOR RECTANGULAR GRILLE
D	SINGLE DEFLECTION RETURN GRILLE	E.H. PRICE	530D	STEEL	PRIMED	DUCT	45 DEG. BLADE, 19mm (3/4") SPACING, COMPLETE WITH INTEGRAL DAMPER - SIDEWALL MOUNTED
E	SINGLE DEFLECTION EXHAUST REGISTER	E.H. PRICE	635DAL	ALUMINUM	PRIMED	SURFACE	45 DEG. BLADE, 13mm (1/2") SPACING, COMPLETE WITH INTEGRAL DAMPER
F	ROUND SUPPLY AIR DIFFUSER	E.H. PRICE	RCD	STEEL	PRIMED	DUCT	DUCT MOUNTED WITH SPIRAL DUCT ADAPTER FOR RECTANGULAR GRILLE
NOTES: 1. STANDARD OF ACCEPTANCE: E.H. PRICE, NAILOR, CRAINES, KRUEGER 2. REFER TO DRAWINGS FOR REGISTER SIZES. 3. SURFACE FINISHING SHALL BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO ORDERING. 4. GRILLES, REGISTERS AND DIFFUSERS TO BE PAINTED ON SITE TO MATCH DUCTWORK. 5. REFER TO PLAN FOR CEILING TYPES							



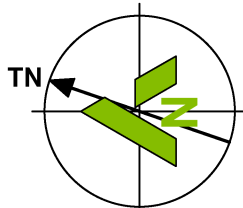
SITE PLAN
NTS

C	2026-07-30	ISSUED FOR TENDER	JSG
B	2026-05-20	ISSUED FOR PERMIT	JSG
A	2026-04-24	ISSUED FOR 50% DETAILED DESIGN	JSG
No.	Date	Description	By

STAMPS:



PROJECT NORTH



TRUE NORTH

ENGINEER:



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www.cima.ca

CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

SCHEDULES - HVAC

DISCIPLINE:

MECHANICAL

DRAFTER: SR	SCALE: AS NOTED
DESIGNER: EPJ	DATE: 2026-07-30
APPROVER: JSG	CHECKER: EPJ
PROJECT No.: Z0020853	DRAWING No.: M-603
SHEET No.: 11 of 11	

ELECTRICAL NOTES:

1. ARRANGE FOR ESA INSTALLATION PERMIT AND INSPECTION AND FORWARD A COPY OF THE ESA CERTIFICATE TO THE ENGINEER UPON ACCEPTANCE

EMT vs. LIQUIDTIGHT vs. FLEXIBLE CABLE

EMT (ELECTRICAL METALLIC TUBING) MUST BE USED IN THE FOLLOWING INDOOR APPLICATIONS:

1. ALL EXPOSED AREAS (USE WIREMOLD ON EXPOSED WALLS IN FINISHED AREAS WHERE EXPOSED WIRING HAS BEEN APPROVED).
2. T-BAR CEILING SPACES.
3. ATTIC SPACES.
4. VERTICAL DROPS TO DEVICES IN NEW WALLS (I.E. SWITCHES RECEPTACLES, DATA VOICE.)

LIQUIDTIGHT MUST BE USED IN THE FOLLOWING INDOOR AND OUTDOOR APPLICATIONS:

1. LAST 5' (1.5m) FOR FINAL CONNECTION TO INDOOR AND OUTDOOR MECHANICAL EQUIPMENT. LIQUID TIGHT CONDUIT IN CEILING SPACE MUST BE PLENUM RATED.

FLEXIBLE CABLE IS ONLY ACCEPTABLE IN THE FOLLOWING INDOOR APPLICATIONS:

1. LAST 5' (1.5m) FOR FINAL CONNECTION TO LIGHTING AND SMALL EQUIPMENT/COMPONENTS IN CEILING SPACES. DAISY CHAIN OF LUMINAIRES IS NOT ALLOWED.
2. LAST 5'(1.5m) FOR FINAL CONNECTION TO MECHANICAL EQUIPMENT LOCATED IN CEILING SPACE OR ON ROOF.
3. FISHED DOWN IN EXISTING WALL(S). FLEXIBLE CABLE IN NOT PERMITTED IN NEW WALL(S).

RIGID CONDUIT MUST BE USED IN THE FOLLOWING OUTDOOR APPLICATIONS:

1. ALL OUTDOOR WIRING EXCEPT FOR LAST 5'(1.5M). FINAL CONNECTION TO BE IN LIQUIDTIGHT.

GENERAL NOTES:

1. THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
2. OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
3. THE ELECTRICAL CONTRACTOR AND SUB-TRADES SHALL ATTEND ALL SITE MEETINGS UNLESS OTHERWISE APPROVED.
4. PROVIDE ELECTRONIC SHOP DRAWINGS IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE, BUT NOT LIMITED TO, VERIFYING VOLTAGE, RATING, DIMENSIONS AND CLEARANCES. SUBMIT SHOP DRAWINGS ELECTRONICALLY TO CONSULTANT.
5. INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
6. MAINTAIN RECORD DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
7. ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
8. ALL CUTTING, CORING AND PATCHING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR.
9. ALL CONDUIT SHALL BE CONCEALED AND ALL DEVICES RECESSED. ANY SURFACE MOUNTED CONDUIT MUST BE APPROVED BY OWNER OR CONSULTANT PRIOR TO INSTALLATION.
10. MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
11. PROVIDE ACCESS DOORS WHERE REQUIRED TO MAINTAIN ACCESS TO DEVICES, EQUIPMENT, JUNCTION BOXES ETC. COORDINATE AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION. CONTRACTOR TO INSTALL WHERE NOT COORDINATED PROPERLY WITH GENERAL CONTRACTOR.
12. TAG ALL EQUIPMENT (INCLUDING MECHANICAL EQUIPMENT). EQUIPMENT DISCONNECTS/STARTERS AND PANELS WITH LAMACOID NAMEPLATES. PANEL NAMEPLATE SHALL STATE PANEL DESIGNATION, VOLTAGE, AMPERAGE AND SOURCE OF FEEDER. EQUIPMENT SHALL STATE PANEL AND CIRCUIT NUMBER. PROVIDE TYPED PANEL SCHEDULES IN ALL PANELS. CONFIRM WITH CONSULTANT IF UNCLEAR.
13. LABEL ALL RECEPTACLES AND JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER. USE BLACK MARKER ON CONCEALED JUNCTION BOXES AND CLEAR ADHESIVE LABELS WITH BLACK WRITING ON RECEPTACLES. PAINT ALL JUNCTION BOXES RED FOR FIRE ALARM.
14. THE CONTRACTOR SHALL ARRANGE FOR FIELD REVIEWS BY THE CONSULTANT PRIOR TO CEILINGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR REVIEW AT THE DIRECTION OF THE CONSULTANT.
15. PERFORM TESTING OF ALL SYSTEMS AS REQUIRED BY CODE AND THE CONSULTANT.
16. ASSIST WITH START-UP AND COMMISSIONING OF ALL SYSTEMS AS REQUIRED.
17. INSTRUCT AND TRAIN THE OWNER ON PROPER OPERATION OF THE SYSTEM.
18. UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATED ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD REVIEW.
19. PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
20. PROGRESS DRAWS SHALL INCLUDE MINIMUM \$2,500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED AND UNTIL ALL CONSULTANT FIELD REVIEW REPORTS HAVE BEEN SIGNED AND RETURNED TO CONSULTANT ALONG WITH PICTURES AS REQUESTED BY CONSULTANT.

ELECTRICAL NOTES:

1. ALL WORK SHALL CONFORM TO ESA REQUIREMENTS.
2. BOND ALL METALLIC WATER, DRAIN AND GAS PIPING AS PER ESA REQUIREMENTS.
3. PROVIDE JUNCTION BOXES C/W COVERPLATES AS REQUIRED.
4. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
5. ALL PANEL BOARDS SHALL BE COMPLETE WITH HINGED DOORS. PROVIDE LOCKING DOORS IN PUBLIC AREAS OR CORRIDORS.
6. ALL DISTRIBUTION EQUIPMENT SHALL HAVE COPPER BUS UNLESS OTHERWISE NOTED. ALUMINUM BUS WILL NOT BE ACCEPTED.
7. REFER TO "EMT (ELECTRICAL METALLIC TUBING) vs. LIQUIDTIGHT vs. FLEXIBLE CABLE" FOR ACCEPTABLE USE OF EACH.
8. EMT AND BOXES SHALL BE SIZED ACCORDING TO CODE REQUIREMENT BASED ON THE NUMBER OF CONDUCTORS.
9. FOR EMT AND/OR CONDUITS BENDS GREATER THAN OR EQUAL TO 270°, A PULL BOX MUST BE PROVIDED.
10. ALL EMT (ELECTRICAL METALLIC TUBING) SHALL BE FIRMLY FASTENED IN PLACE SO AS TO SUPPORT THE WEIGHT OF CONDUIT AND TO PREVENT ANY STRAIN OR STRESS AT TERMINATIONS ACCORDING TO ELECTRICAL CODE 12-1010.
11. CONCEAL ALL EMT (ELECTRICAL METALLIC TUBING) AND COMPONENTS IN CEILING SPACE OR WALLS. RUN TIGHT TO ROOF DECK OR FLOOR ABOVE WHERE CEILING IS EXPOSED. RUN TIGHT TO WALL OR COLUMN WHERE WALLS ARE EXPOSED.
12. WHERE EMT RUNS HORIZONTALLY ACROSS WALL STUDS, NOTCHES SHOULD BE CUT AND PROTECTED BY STEEL PLATES.
13. EACH NEW PHOTOCOPIER, FAX MACHINE, AND PRINTER DUPLEX TO BE ON A SEPARATE DEDICATED CIRCUIT C/W ISOLATED GROUND. BREAKER SIZE TO BE AS PER EQUIPMENT RECOMMENDATIONS.
14. MOUNTING HEIGHTS

1. MOUNT NEW CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO, P.A. CALL SWITCHES, OPERATORS, LIGHT SWITCHES OR SWITCH PLATE OCCUPANCY SENSORS NO LESS THAN 36" (900mm) A.F.F. TO BOTTOM OF BOX AND 43"(1100mm) MAXIMUM A.F.F. TO TOP OF BOX. UNLESS OTHERWISE NOTED.

2. MOUNT NEW RECEPTACLES 16" (400mm) A.F.F. UNLESS OTHERWISE NOTED.

3. ROOFTOP MAINTENANCE RECEPTACLES SHALL BE MOUNTED 30" (750mm) ABOVE ROOF LINE.
15. RECEPTACLES LOCATED WITHIN 5'(1.5m) OF A DAMP OR WET LOCATION SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE.
16. CONTRACTOR TO ALLOW FOR THE RELOCATION OF ANY RECEPTACLE OR DEVICE/EQUIPMENT CONNECTION WITHIN 10' OF LOCATION SHOWN AT NO EXTRA COST.
17. DEVICE COVER PLATES SHALL BE STANDARD NYLON IN FINISHED AREAS AND STAINLESS STEEL IN UNFINISHED AREAS INCLUDING MECHANICAL ROOM. COLOUR OF NYLON COVER PLATES TO BE CONFIRMED WITH ARCHITECT.
18. BRANCH CIRCUIT BREAKER AMPERE INTERRUPTING CAPACITY TO MATCH BUS RATING. PROVIDE 10% SPARE FOR FUTURE.
19. ALL CIRCUITS SHALL CONTAIN SEPARATE PHASE, NEUTRAL AND GROUND CONDUCTORS. SHARED NEUTRALS IS NOT PERMITTED.
20. MAXIMUM VOLTAGE DROP IN BRANCH CIRCUITS TO BE 3%. CONDUCTORS SHALL BE OVSIZED TO SUIT VOLTAGE DROP WHERE APPLICABLE.
21. CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED. CONDUCTORS IN RACEWAYS SHALL BE T75 NYLON (T90 ACCEPTABLE IF DERATED AS PER OESC). ALL CONDUCTORS SHALL BE MINIMUM #10AWG FOR EMERGENCY BATTERY CIRCUITS AND EXTERIOR LIGHTING. #14AWG FOR CONTROL WIRING AND MINIMUM #12AWG FOR ALL OTHER APPLICATIONS.
22. ALL WIRE SIZES INDICATED ON DRAWINGS ARE BASED ON A 75°C TERMINATION TEMPERATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE TERMINATION TEMPERATURE OF EACH DEVICE AND MODIFY THE WIRE SIZE TO SUIT OR NOTIFY ENGINEER FOR DIRECTION.
23. IDENTIFY EACH WIRE AND CABLE AT EVERY TERMINATION POINT. IDENTIFY ALL EMT AND/OR CONDUITS WITH "NEAT" COLOUR BANDS AT NO MORE THAN 25'(7.5m) INTERVALS AND ON BOTH SIDES OF WALLS & FLOOR.
24. NON-CURRENT CARRYING METAL PARTS FOR FIXED EQUIPMENT SHALL BE BONDED TO GROUND. INSTALL SEPARATE BONDING IN LIQUIDTIGHT CONDUITS.
25. DISCONNECT SWITCHES FOR HVAC EQUIPMENT MUST BE INSTALLED WITHIN 10' (3m).
26. MOTORS OTHER THAN AIR CONDITIONERS MUST HAVE DISCONNECT WITHIN SIGHT AND 30' (9m) OF THE MOTOR AND/OR STARTER.
27. CONTRACTOR IS RESPONSIBLE FOR LOAD BALANCING ALL DISTRIBUTION PANEL INSTALLATIONS. MEASURE PHASE CURRENT TO PANELBOARDS WITH NORMAL LOADS (LIGHTING) OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND RECORD CHANGES. SUBMIT AT COMPLETION OF WORK, REPORT LISTING PHASE AND NEUTRAL CURRENTS ON PANELBOARDS, DRY-CORE TRANSFORMERS AND MOTOR CONTROL CENTERS OPERATING UNDER NORMAL LOAD. STATE HOUR AND DATE ON WHICH EACH LOAD WAS MEASURED, AND VOLTAGE AT TIME OF TEST.
28. FIRE STOP ALL CONDUIT THROUGH FIRE SEPARATIONS.

POWER LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
	15A 120V 1PH GROUND DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL BR15WHI OR EQUAL
	20A 120V 1PH GROUND DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL BR20WHI OR EQUAL
	20A 120V 1PH GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL GF20WLA OR EQUAL
	30A 120V 1PH GROUND DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL HBL3038 OR EQUAL
	POWER DOOR OPERATOR BY GENERAL CONTRACTOR. PROVIDE 120V POWER TO DOOR OPERATOR AND INTERLOCK WIRING BETWEEN OPERATOR AND WALL PUSH BUTTON	N/A
	EMERGENCY/9/11 CALL BUTTON. SUPPLIED AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX. CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.	N/A
	PUSH TO LOCK. SUPPLIED AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.	N/A
	EMERGENCY AUDIBLE/VISUAL DEVICE. SUPPLIED AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.	N/A
	PUSH TO OPEN FOR BARRIER FREE OR REGULAR DOOR CONTROL BY GENERAL CONTRACTOR. PROVIDE CONCEALED CONDUIT UP WALL TO DOOR OPERATOR C/W INTERLOCK WIRING TO DOOR OPERATOR.	N/A
	JUNCTION BOX	N/A
	NEW PANEL	
	120V 1PH GROUND DIRECT EQUIPMENT CONNECTION	N/A
	240V 1PH GROUND DIRECT EQUIPMENT CONNECTION	N/A
	DISCONNECT SWITCH 'WP' DENOTES WEATHERPROOF	
	MANUAL MOTOR STARTER. RATED TO SUIT LOAD.	EQUAL TO SIEMENS SMFG71P
	HAND DRYER	REFER TO SPECIFICATIONS

COMMUNICATIONS LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
	DATA ONLY OUTLET BOX - WALL BOX, OUTLET & 3/4" CONDUIT C/W PULL STRING UP WALL TO CEILING SPACE	N/A

ELECTRICAL ABBREVIATIONS	
H/L	HIGH LEVEL
X#	QUANTITY OF DEVICES
AFF	ABOVE FINISHED FLOOR
C/W	COMPLETE WITH
WG	WIRE GUARD

LIGHT FIXTURE SCHEDULE			
TAG	DESCRIPTION	MAKE / MODEL	ALTERNATE
	CEILING MOUNTED 4' LED VANDAL RESISTANT DAMP LOCATION PENDANT LIGHT, FLAT ENDCAP, DIFFUSE LENS, 120V, 3500 LUMENS	LEVITON VRSD5-48FC-LED840K025LUNV-DPP	LITHONIA PEERLESS-ELECTRIC
	SURFACE WALL MOUNTED 2' LED VANDAL RESISTANT DAMP LOCATION LIGHT, FLAT ENDCAP, DIFFUSE LENS, 120V, 2500 LUMENS, MOUNTED APPROXIMATELY 7' AFF OVER VANITY, BLACK	LEVITON VRSD5-24FC-LED840K025LUNV-DPP	
	SUSPENDED 4' LED PENDANT LIGHT, FROSTED POLYCARBONATE LENS, 120V, 4200 LUMENS, BLACK	FLEXILINE FLEX48-LED40A24-H-VK-BLK-DIM	EQUAL
	OUTDOOR 4" REGRESSED GIMBAL CEILING MOUNTED LED POTLIGHT, WET LOCATION, STANDARD LENS, DIMMABLE, 16W, 1450 LUMENS, 120V, 3500K, BLACK	LITELINE RA4-16RG-P-90BK	EQUAL
	INDOOR 8" ROUND CEILING MOUNTED LED POTLIGHT, WET LOCATION, STANDARD LENS, DIMMABLE, 33W, 3130 LUMENS, 120V, 3500K, BLACK	LITELINE SLMPRO8-35K-C-BK	EQUAL
	18 INCH PENDENT LIGHT FIXTURE, CANOPY MOUNT, 32W, 2827 LUMENS, 120V, 3500K, GLOSS BLACK FINISH, DIMMABLE, C/W CEILING SLOPE ADAPTER FOR STEM MOUNT (30DEG)	CALVIN CAL-I-18-32LED-C60-35K-120-CD-F16-DIML-BL	EQUAL
	WALL SCONCE, 17W, DIMMABLE, MOUNTED TO A 4" J-BOX, GLOSS BLACK FINISH, 120V, 3000K, 753 LUMENS	MELLO MEW10-O-15LED-30K-120-WM-F16-DIML-W10	EQUAL
	LIGHT SWITCH - '3' DENOTES 3-WAY - '4' DENOTES 4-WAY	HUBBELL 1200 SERIES (120V)	LEVITON LEGRAND
	SWITCH PLATE MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR WITH BUTTON, WHITE, 120V	LEVITON ODS10-IDW	HUBBELL LEGRAND ACUTY CONTROLS
	LIGHT SWITCH WITH SLIDE DIMMER, ON/OFF SWITCH, LED RATED, 120V, CONTRACTOR TO PROVIDE 0-10V CONTROL OR PHASE CONTROL AS REQUIRED	LEVITON RF DECORA IFL06-10 (120V, LINE) IP710-LFZ (120V, 0-10V)	HUBBELL LEGRAND COOPER
	ELECTRONIC 7-DAY PROGRAMMABLE TIME CLOCK	INTERMATIC ET2100 SERIES	EQUAL
	PHOTOCELL	EQUAL	EQUAL
	CEILING MOUNTED DUAL TECHNOLOGY LOW PROFILE OCCUPANCY SENSOR 24V, INCLUDE POWER PACKS AS REQUIRED	LEVITON OSC10-MDW	HUBBELL LEGRAND ACUTY CONTROLS
	WALL/CORNER MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, WHITE, 24V	LEVITON OSW12-M0W	HUBBELL LEGRAND ACUTY CONTROLS

EMERGENCY LIGHTING SCHEDULE		
TAG	DESCRIPTION	MAKE / MODEL
	ALL METAL EXIT SIGN, WHITE LED LIGHT SOURCE, FACTORY WHITE, GREEN RUNNING MAN WITH LEGEND PLATE AS NOTED, SINGLE FACE, UNIVERSAL MOUNTING (WALL, END OR CEILING), 120/347V AC INPUT (NORMAL), 6-24V DC INPUT (EMERGENCY).	EQUAL TO LUMACELL LS1WU.
	STEEL BATTERY UNIT COMPLETE 14W LED HEAD, CORROSION RESISTANT, FACTORY WHITE, REMOVABLE FRONT ACCESS PANEL, LEAD ACID BATTERY, SOLID STATE PULSE-TYPE CHARGER, TEST SWITCH, LED INDICATOR LIGHTS. 120/347V INPUT WITH LINE CORD KIT, 12V OUTPUT, MOUNTED 2.13 (7") AFF. EXACT MOUNTING HEIGHT TO BE COORDINATED ON-SITE WITH FINAL CONDITIONS.	EQUAL TO LUMACELL RG12S-200-1-MQM-LD7
	WALL MOUNTED REMOTE SINGLE HEAD 12V 4W LED EMERGENCY LIGHT, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX, MOUNTED 2.13 (7") AFF. EXACT MOUNTING HEIGHT TO BE COORDINATED ON-SITE WITH FINAL CONDITIONS.	EQUAL TO LUMACELL MQM-LD7
	WALL MOUNTED REMOTE DUAL HEAD 12V 4W LED EMERGENCY LIGHT, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX, MOUNTED 2.13 (7") AFF. EXACT MOUNTING HEIGHT TO BE COORDINATED ON-SITE WITH FINAL CONDITIONS.	EQUAL TO LUMACELL MQM2-LD7
APPROVED ALTERNATES: BEGHELLI, EMERGI-LITE, AIMLITE, STAN PRO		
NOTE: 1. #1 DENOTES BATTERY UNIT. 2. OS DENOTES DOUBLE SIDED. 3. ALLOW 20% SAFETY ON BACK-UP BATTERY PACK SIZING. 4. ALL UNITS TO BE CSA CERTIFIED. 5. EMERGENCY LIGHTING LIGHT LEVELS ARE TO BE TAKEN IN FOOT CANDLES BY THE CONTRACTOR AFTER PROJECT COMPLETION. ADVISE CONSULTANT OF TEST DATE FOR WITNESS AND OWN READINGS.		

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D	2026-07-30	ISSUED FOR TENDER	L.C.
C	2026-05-22	ISSUED FOR 90% REVIEW	L.C.
B	2026-05-20	ISSUED FOR PERMIT	L.C.
A	2026-04-24	ISSUED FOR 50% DD	L.C.
No.	Date	Description	By



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CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

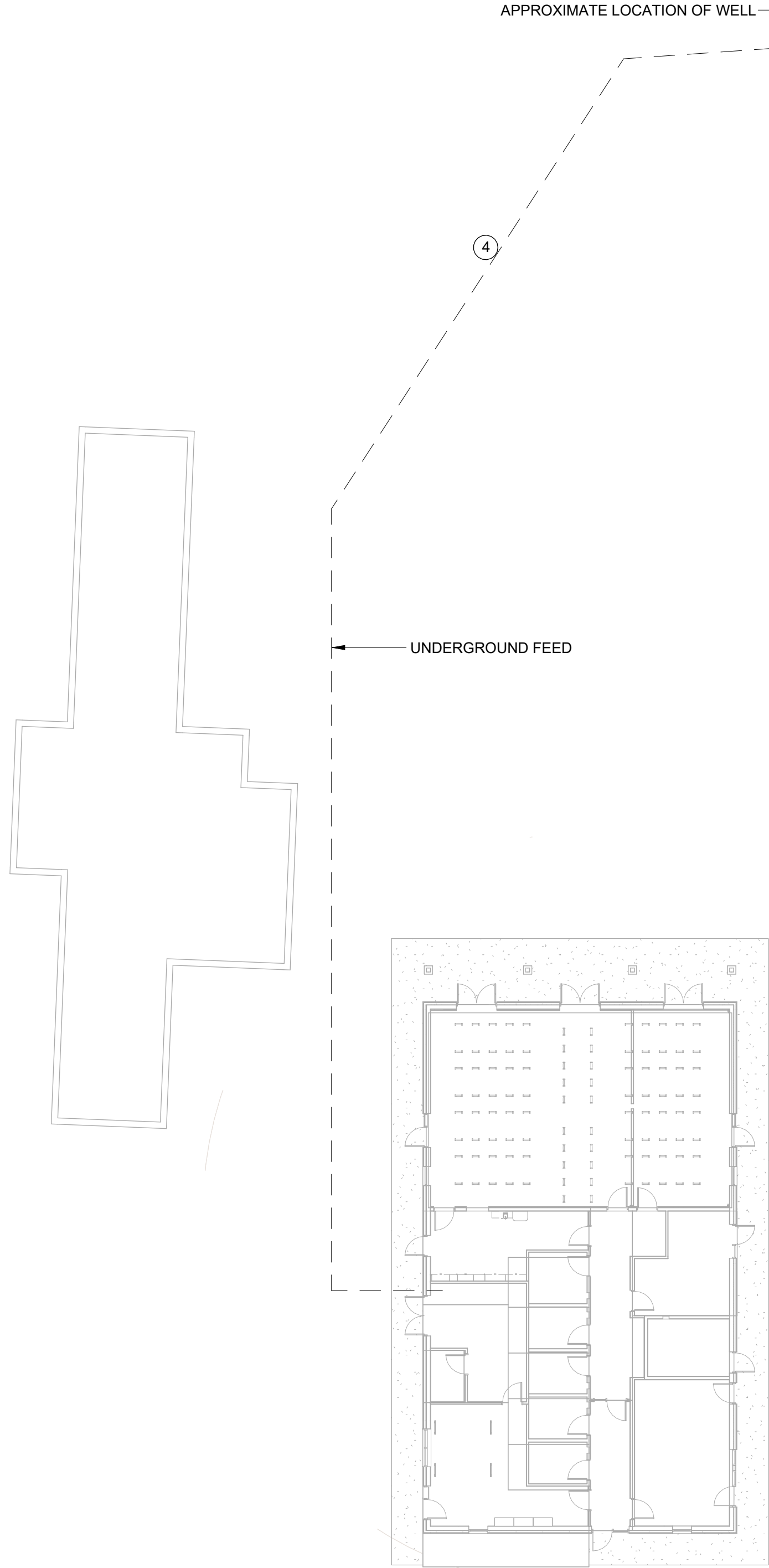
LEGENDS & NOTES

DISCIPLINE:			
ELECTRICAL			
DRAFTER:		SCALE:	
J.B.		N.T.S.	
DESIGNER:		DATE:	
L.C.		2026-07-30	
APPROVER:		CHECKER:	
L.C.		L.C.	
PROJECT No:		DRAWING No:	
Z0029853		E-001	
SHEET No:			
1 of 6			

2

North Site Plan - Electrical

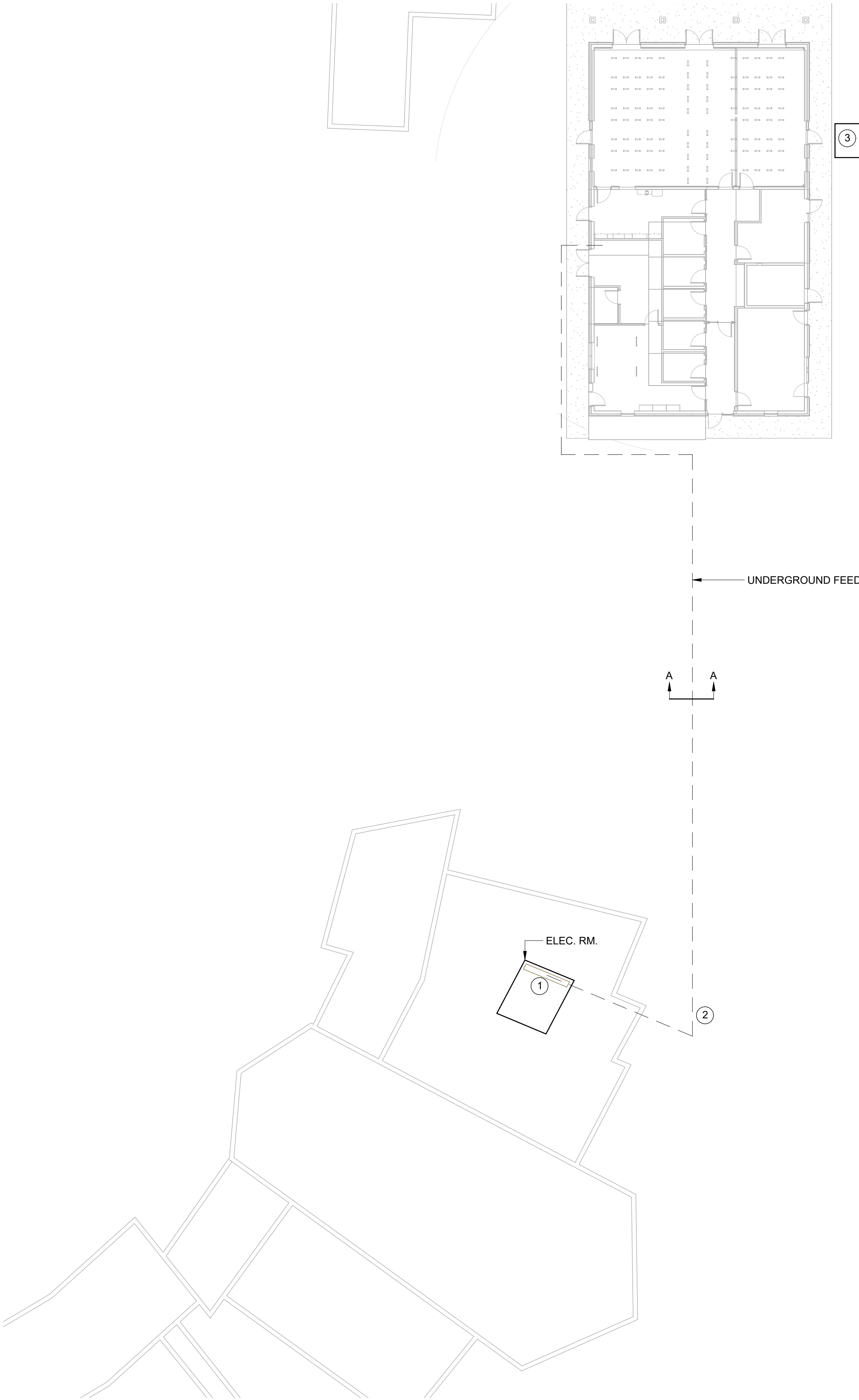
SCALE: 1 : 200



1

South Site Plan - Electrical

SCALE: 1 : 200

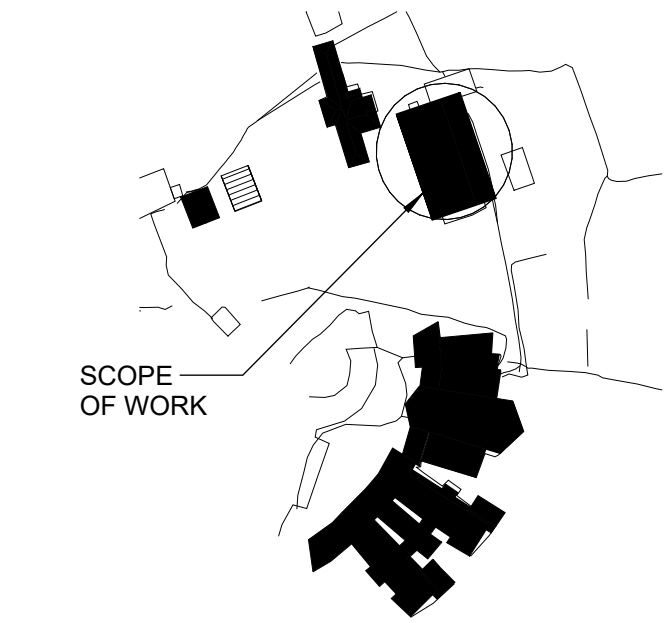


- WORKING NOTES:**
- EXISTING MAIN SERVICE SWITCHBOARD LOCATED IN ELECTRICAL ROOM OF EXISTING BUILDING. REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
 - NEW FEED FROM MAIN SERVICE SWITCHBOARD TO NEW BUILDING. PROVIDE EMT CONDUIT FOR ABOVE GROUND INSTALLATION AND TRANSITION TO PVC FOR EXTERIOR AND UNDERGROUND PORTION OF FEED. REFER TO SINGLE LINE DIAGRAM FOR DETAILS AND SECTION DETAIL A-A ON E-602
 - PROVIDE NEW UNDERGROUND ENCLOSURE TO INTERCEPT EXISTING POWER FEEDS RUNNING FROM EXISTING MAIN SERVICE SWITCHBOARD TO OTHER BUILDINGS ON PROPERTY. CONTRACTOR TO PERFORM ALL NECESSARY LOCATES AND EXCAVATION AS REQUIRED TO LOCATE EXISTING UNDERGROUND FEEDS AND INTERCEPT TO ALLOW REWORKING OF FEEDS TO FACILITATE FOUNDATION WORK FOR NEW BUILDING. ALL FEEDS TO BE EXTENDED WITH MECHANICAL INSULATED LUGS. ENCLOSURE SHALL BE EQUAL TO HUBBELL DT304836.
 - PROVIDE NEW FEED FOR EXISTING WELL PUMP. CONTRACTOR TO INVESTIGATE EXISTING CONNECTION AND MATCH. ALLOW FOR RECEPTACLE OR DIRECT CONNECTION TO PUMP.

BUILDING ELECTRICAL SERVICE SIZE CALCULATION

CALCULATIONS ARE BASED ON CLAUSE 8-210 OF THE ONTARIO ELECTRICAL SAFETY CODE.

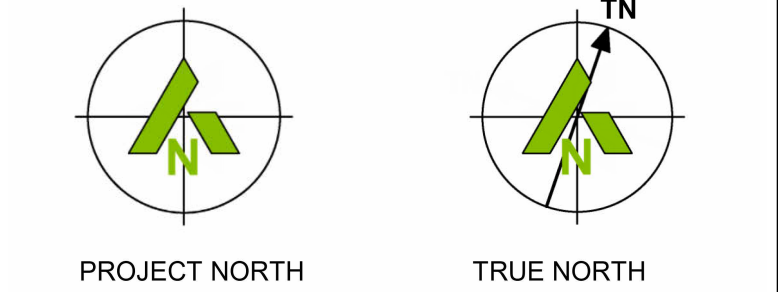
1. TOTAL AREA -----	9,453 WATTS
2. BASIC LOAD (@ 25W/m ²) -----	5,068 WATTS
3. MECHANICAL DEMAND -----	1,338 WATTS
4. LIGHTING DEMAND -----	27,675 WATTS
5. ELECTRIC HEAT (@ 75%) -----	43,533 WATTS
6. TOTAL (2+3+4+5 FROM ABOVE) -----	54,417 WATTS
7. CONTINUOUS LOAD (x1.25%) -----	
8. SERVICE SIZE (@ 240V/1Ø) 227A (400 AMPERES - FUSED AT 250A)	



SITE PLAN
NTS

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No.	Date	Description	By



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CLIENT:

PROJECT NAME:

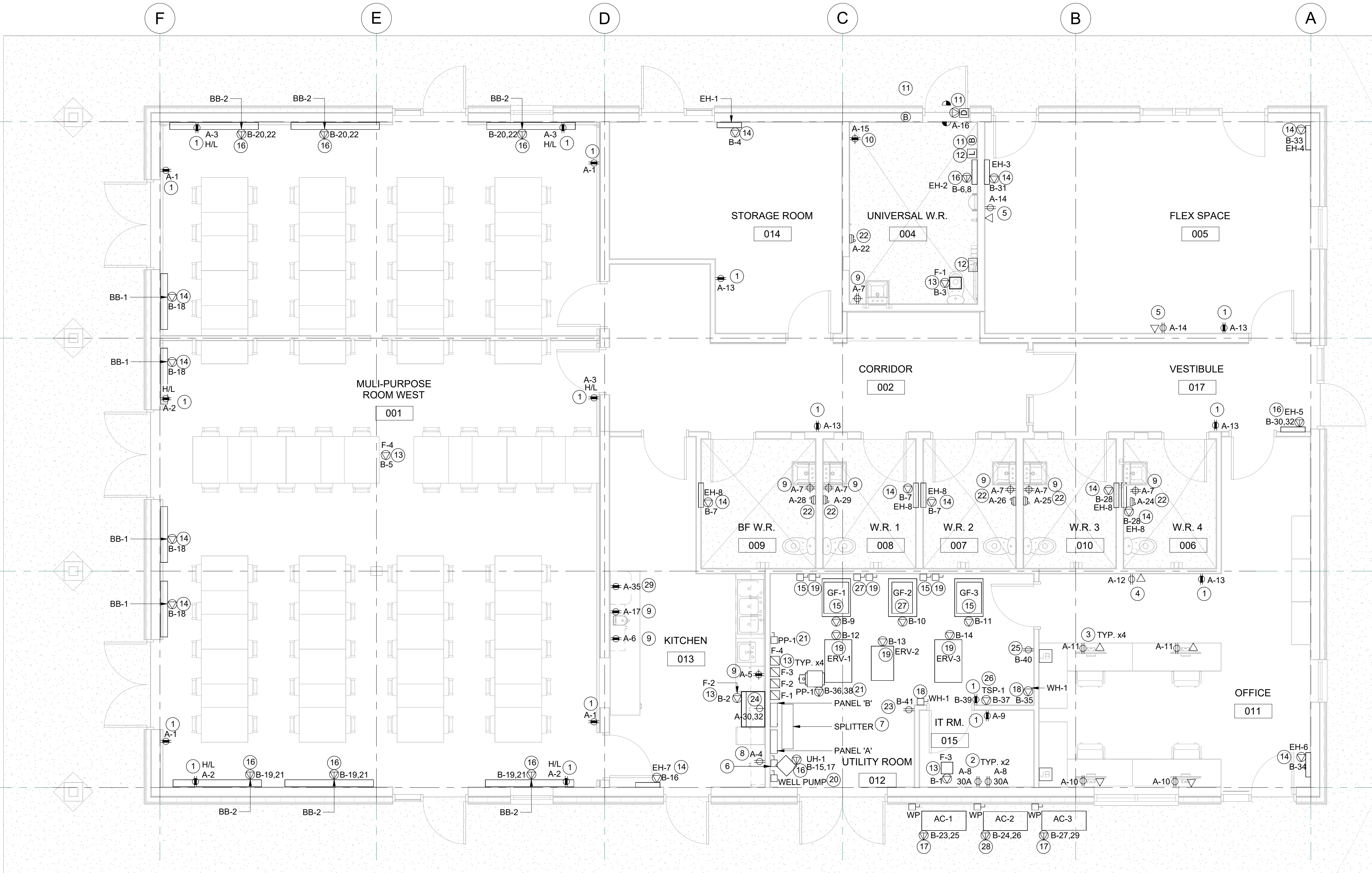
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

SITE PLAN

DISCIPLINE: ELECTRICAL

DRAFTER: J.B.	SCALE: AS NOTED
DESIGNER: L.C.	DATE: 2026-07-30
APPROVER: L.C.	CHECKER: L.C.
PROJECT No.: Z0029853	DRAWING No.: E-101
SHEET No.: 2 of 6	

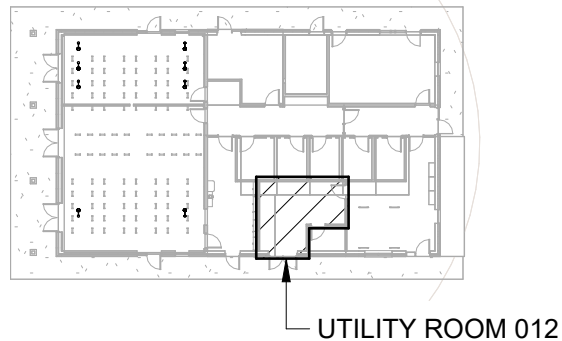


1

Floor Plan - Ground Level

SCALE: 1 : 50

- WORKING NOTES:**
- 1 PROVIDE NEW RECEPTACLE AS NOTED.
 - 2 PROVIDE NEW 30 RECEPTACLE FOR DATA RACK.
 - 3 PROVIDE NEW 120V/1PH FEED TO NEW WORKSTATION. PROVIDE NEW POWER AND DATA CONNECTION AS NOTED.
 - 4 PROVIDE NEW DEDICATED POWER AND DATA CONNECTIONS AS NOTED FOR PHOTOCOPIER.
 - 5 PROVIDE POWER AND DATA CONNECTION AS NOTED.
 - 6 PROVIDE NEW 200A 240V/1PHASE DISCONNECT.
 - 7 PROVIDE NEW PANELS 'A' & 'B' C/W NEW FEEDER FROM NEW 200A SPLITTER MOUNTED BELOW. PROVIDE NEW LAMACOID NAMEPLATES. REFER TO PANEL SCHEDULE.
 - 8 PROVIDE 120V RECEPTACLE FOR FRIDGE.
 - 9 PROVIDE DEDICATED 120V/1PH COUNTER TOP RECEPTACLE AS NOTED. FINAL LOCATION TO BE DETERMINED ON SITE.
 - 10 PROVIDE RECEPTACLE AS NOTED FOR CHANGE TABLE. COORDINATE EXACT LOCATION WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN TO SUIT CHANGE TABLE.
 - 11 PROVIDE 120V/1PH POWER FOR BARRIER FREE OPERATORS AND PUSH-TO-LOCK WHERE SHOWN C/WBACK BOXES, CONDUIT AND LOW VOLTAGE WIRING. FOR ALL BUTTONS AND ELECTRIC STRIKE, CENTER LINE HEIGHT FOR ROUGH-IN WALL BOXES FOR PUSH BUTTON TO BE 900mm(35") AFF AND 1100mm(43") AFF, MINIMUM 600mm(23.7") AND MAXIMUM 1500mm(59") FROM LEADING EDGE OF DOOR (WHEN OPEN). COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR/ARCHITECTURAL ELEVATIONS AND EXACT BACK BOX REQUIREMENT WITH DOOR MANUFACTURER PRIOR TO ROUGH-IN.
 - 12 PROVIDE BACK BOXES, CONDUIT AND INTERLOCK WIRING FOR EMERGENCY RESPONSE SYSTEM. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND GENERAL CONTRACTOR. CONFIRM ALL REQUIREMENTS WITH DOOR HARDWARE SUPPLIER.
 - 13 PROVIDE 120V/1PH POWER FOR EXHAUST FAN C/W WALL MOUNTED STARTER IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 14 PROVIDE 120V/1PH POWER CONNECTION FOR ELECTRIC HEATING EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 15 PROVIDE 120V/1PH POWER CONNECTION FOR GAS FURNACE C/W WALL MOUNTED 20A DISCONNECT IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 16 PROVIDE 240V/1PH POWER CONNECTION FOR ELECTRIC HEATING EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 17 PROVIDE 240V/1PH POWER CONNECTION FOR AIR CONDITIONING UNIT C/W WALL MOUNTED 40A DISCONNECT IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 18 PROVIDE 120V/1PH POWER CONNECTION FOR WATER HEATER C/W WALL MOUNTED 20A DISCONNECT IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 19 PROVIDE 120V/1PH POWER CONNECTION FOR ENERGY RECOVERY VENTILATOR C/W WALL MOUNTED 15A DISCONNECT IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 20 CONTRACTOR TO INVESTIGATE EXISTING POWER CONNECTION FEEDING WELL PUMP AND PROVIDE NEW C/W WALL MOUNTED DISCONNECT RATED TO MATCH EXISTING. DISCONNECT TO BE MOUNTED IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR. REFER TO E-101 FOR MORE INFORMATION.
 - 21 PROVIDE 240V/1PH POWER CONNECTION FOR PLUMBING PUMP C/W WALL MOUNTED 15A DISCONNECT IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 22 PROVIDE NEW HAND DRYER C/W 120V DIRECT CONNECTION.
 - 23 PROVIDE 15A RECEPTACLE TO SERVE CHLORINE PUMP. ALLOW FOR DIRECT CONNECTION AS NECESSARY. COORDINATE FINAL MOUNTING HEIGHT WITH MECHANICAL TO SUIT EQUIPMENT CORD LENGTH.
 - 24 PROVIDE NEW 6-50R RECEPTACLE FOR NEW ELECTRIC RANGE. PROVIDE NEW 50A CIRCUIT C/W 3#6AWG + GND IN 27mmC FOR FEED.
 - 25 PROVIDE DEDICATED 15A RECEPTACLE TO SERVE UV LAMP AND WATER FILTER SYSTEM. ALLOW FOR DIRECT CONNECTION AS NECESSARY. COORDINATE FINAL MOUNTING HEIGHT WITH MECHANICAL TO SUIT EQUIPMENT CORD LENGTH.
 - 26 PROVIDE 120V POWER FOR TRAP SEAL PRIMER. EXACT LOCATION TO BE COORDINATED ON SITE. ALLOW FOR RECEPTACLE CONNECTION AS REQUIRED. COORDINATE WITH MECHANICAL CONTRATOR.
 - 27 PROVIDE 120V/1PH POWER CONNECTION FOR GAS FURNACE C/W WALL MOUNTED 15A DISCONNECT IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 28 PROVIDE 240V/1PH POWER CONNECTION FOR AIR CONDITIONING UNIT C/W WALL MOUNTED 20A DISCONNECT IN UTILITY ROOM 012. EXACT LOCATION IN UTILITY ROOM 012 TO BE COORDINATED. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 29 PROVIDE DEDICATED 120V/1PH RECEPTACLE AT HIGH LEVEL FOR MICROWAVE CABINET. FINAL LOCATION TO BE DETERMINED ON SITE AND COORDINATED WITH MILLWORK INSTALLER.



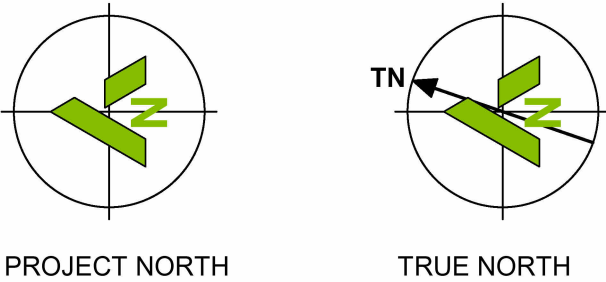
KEYPLAN

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No.	Date	Description	By
D	2026-07-30	ISSUED FOR TENDER	L.C.
C	2026-05-22	ISSUED FOR 90% REVIEW	L.C.
B	2026-05-20	ISSUED FOR PERMIT	L.C.
A	2026-04-24	ISSUED FOR 50% DD	L.C.

STAMPS:



ENGINEER:

CIMA+

415 Baseline Road West
Bowmanville, ON L1C 5M2
T 905.697.4464 F 905.697.0443
www.cima.ca

CLIENT:

Ganaraska Forest Center - Auxiliary Building

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

FLOOR PLAN - GROUND LEVEL

DISCIPLINE: ELECTRICAL			
DRAFTER: J.B.		SCALE: AS NOTED	
DESIGNER: L.C.		DATE: 2026-07-30	
APPROVER: L.C.		CHECKER: L.C.	
PROJECT No: Z0029853		DRAWING No: E-102	
SHEET No: 3 of 6			



- ① PROVIDE LUMINAIRE AS NOTED. REFER TO WIRING DETAIL.
- ② PROVIDE NEW SWITCH FOR LIGHTING CONTROL AS NOTED.
- ③ PROVIDE NEW EXIT SIGN. CONNECT TO BATTERY UNIT.
- ④ PROVIDE NEW EMERGENCY LIGHTING AS NOTED. CONNECT TO BATTERY UNIT.
- ⑤ PROVIDE NEW TIME CLOCK FOR EXTERIOR LIGHTING CONTROL. REFER TO EXTERIOR LIGHTING DETAIL ON E-602.
- ⑥ PROVIDE NEW PHOTOCELL FOR EXTERIOR LIGHTING CONTROL. REFER TO EXTERIOR LIGHTING DETAIL ON E-602.
- ⑦ PROVIDE NEW DIMMING SWITCHES TO CONTROL LIGHTING IN MULTI-PURPOSE ROOM AS FOLLOWS. FOLDING WALL ON PLAN DENOTES DIVISION BETWEEN EAST AND WEST. 1) DOWNLIGHTS EAST. 2) DOWNLIGHTS WEST. 3) PENDANTS EAST. 4) PENDANTS WEST.
- ⑧ PROVIDE NEW OCCUPANCY SENSOR FOR LIGHTING CONTROL.



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A	2026-04-24	ISSUED FOR 50% DD	L.C.
No.	Date	Description	By



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Ganaraska Forest Center - Auxiliary Building

REFLECTED CEILING PLAN -
GROUND LEVEL

ELECTRICAL

DRAWER:	J. B.	SCALE:	AS NOTED
DESIGNER:	L. C.	DATE:	2026-07-30
APPROVER:	L. C.	CHECKER:	L. C.
PROJECT No:	Z0029853	DRAWING No:	E-103
SHEET No:	4 of 6		

Branch Panel: PANEL 'B'											
Location: UTILITY ROOM 012				Volts: 120/240V				A.I.C. Rating: 10k			
Supply From:				Phases: 1				Mains Type: MAIN BREAKER			
Mounting: Surface				Wires: 3				Mains Rating: 200 A			
Enclosure: NEMA 1 Indoor								MCB Rating: 200 A			
Notes:											
CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	F-3 IT RM. 015	15 A	1	0 VA	0 VA			1	15 A	F-2 UTILITY ROOM 012	2
3	F-1 UNIV. WSHRM 004	15 A	1			0 VA	0 VA	1	20 A	EH-1 STOR. 014	4
5	F-4, F-5 & F-6 MULTI-PURPOSE ROOM WEST 001	15 A	1	0 VA	0 VA			2	15 A	EH-2 UNIV. WSHRM 004	6
7	EH-8 WASHROOMS 007, 008 & 009	20 A	1			0 VA	0 VA	--	--	--	8
9	GF-1 UTILITY ROOM 012	20 A	1	0 VA	0 VA			1	15 A	GF-2 UTILITY ROOM 012	10
11	GF-3 UTILITY ROOM 012	20 A	1			0 VA	0 VA	1	15 A	ERV-1 UTILITY ROOM 012	12
13	ERV-2 UTILITY ROOM 012	15 A	1	0 VA	0 VA			1	15 A	ERV-3 UTILITY ROOM 012	14
15	UH-1 UTILITY ROOM 012	20 A	2			0 VA	0 VA	1	20 A	EH-7 OFFICE 011	16
17	--	--	--	0 VA	0 VA			1	30 A	BB-1 MULTI-PURPOSE RM. WEST 001	18
19	BB-2 MULTI-PURPOSE RM. WEST 001 SOUTH	40 A	2			0 VA	0 VA	2	40 A	BB-2 MULTI-PURPOSE RM. WEST 001 NORTH	20
21	--	--	--	0 VA	0 VA			--	--	--	22
23	AC-1 OUTSIDE UTILITY ROOM 012	40 A	2			0 VA	0 VA	2	20 A	AC-2 OUTSIDE UTILITY ROOM 012	24
25	--	--	--	0 VA	0 VA			--	--	--	26
27	AC-3 OUTSIDE UTILITY ROOM 012	40 A	2			0 VA	0 VA	1	15 A	EH-8 WASHROOMS 006 & 010	28
29	--	--	--	0 VA	0 VA			2	20 A	EH-5 VEST. 017	30
31	EH-3 FLEX 005	20 A	1			0 VA	0 VA	--	--	--	32
33	EH-4 FLEX 005	20 A	1	0 VA	0 VA			1	20 A	EH-6 KIT. 013	34
35	WH-1 UTILITY RM. 012	20 A	1			0 VA	0 VA	2	15 A	PP-1 UTILITY RM. 012	36
37	TSP-1 UTIL. 012	15 A	1	0 VA	0 VA			--	--	--	38
39	MAINTENANCE REC. UTILITY RM. 012	20 A	1			180 VA	180 VA	1	15 A	UV-1 & WFS-1 UTIL. 012	40
41	CHLORINE PUMP UTIL. 012	15 A	1	180 VA							42
43											44
45											46
47											48
49											50
51											52
53											54
55											56
57											58
59											60
Total Load:				180 VA		360 VA					
Total Amps:				2 A		3 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Other		0 VA		0.00%		0 VA					
Receptacle		540 VA		100.00%		540 VA		Total Conn. Load: 540 VA			
Power		0 VA		0.00%		0 VA		Total Est. Demand: 540 VA			
								Total Conn.: 2 A			
								Total Est. Demand: 2 A			
Notes:											

Branch Panel: PANEL 'A'											
Location: UTILITY ROOM 012				Volts: 120/240V				A.I.C. Rating: 10k			
Supply From:				Phases: 1				Mains Type: MAIN BREAKER			
Mounting: Surface				Wires: 3				Mains Rating: 200 A			
Enclosure: NEMA 1 Indoor								MCB Rating: 200 A			
Notes:											
CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	REC.LES MULTI-PURPOSE RM. WEST	20 A	1	720 VA	540 VA			1	20 A	HIGH LEVEL REC. MULTI-PURPOSE RM. WEST	2
3	HIGH LEVEL REC. MULTI-PURPOSE RM. EAST	20 A	1			540 VA	180 VA	1	15 A	FRIDGE REC. KIT. 013	4
5	COUNTER TOP REC. KIT. 013	20 A	1	180 VA	180 VA			1	20 A	COUNTER TOP REC. KIT. 013	6
7	REC. WASHROOMS	15 A	1			1080 VA	360 VA	1	30 A	REC. IT RM.	8
9	REC. IT RM.	20 A	1	180 VA	360 VA			1	15 A	REC. WORKSTATIONS OFFICE	10
11	REC. WORKSTATIONS OFFICE	15 A	1			360 VA	180 VA	1	15 A	REC. PHOTOCOPIER OFFICE	12
13	MAINTENANCE REC. OFFICE, VEST., CORR.....	20 A	1	900 VA	360 VA			1	15 A	REC. FLEX SPACE	14
15	REC. UNIVERSAL W/R	20 A	1			180 VA	180 VA	1	15 A	DOOR OPERATOR UNIVERSAL W/R	16
17	COUNTER TOP REC. KIT. 013	20 A	1	180 VA	18 VA			1	15 A	EMERGENCY LIGHTING BU-1	18
19	HAND DRYER W.R. 010	20 A	1			0 VA	204 VA	1	15 A	LIGHTING KIT. 013, UTIL. 012, OFFICE 011 & I.T...	20
21	EXTERIOR SOFFIT LIGHTING	15 A	1	0 VA	0 VA			1	20 A	HAND DRYER UNIV. W.R. 004	22
23	HAND DRYER W.R. 008	20 A	1			0 VA	0 VA	1	20 A	HAND DRYER W.R. 006	24
25	LIGHTING STOR. 014, UNIV. W.R. 004 & FLEX 005	20 A	1	170 VA	0 VA			1	20 A	HAND DRYER W.R. 007	26
27	LIGHTING CORR. 002, VEST. 017 & W.R.S	20 A	1			187 VA	0 VA	1	20 A	HAND DRYER B.F. W.R. 009	28
29	EXIT SIGNS	15 A	1	0 VA	0 VA			2	50 A	ELECTRIC RANGE KIT. 013	30
31	POTLIGHTS MULTI-PURPOSE ROOM	15 A	1			0 VA	0 VA	--	--	--	32
33	EXTERIOR WALL SCONCE LIGHTING	15 A	1	420 VA	348 VA			1	15 A	PENDANT LIGHTING MULTI-PURPOSE ROOM	34
35	MICROWAVE REC. KIT. 013	20 A	1			180 VA					36
37											38
39											40
41											42
43											44
45											46
47											48
49											50
51											52
53											54
55											56
57											58
59											60
Total Load:				4537 VA		3631 VA					
Total Amps:				38 A		30 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Lighting - Dwelling Unit		420 VA		100.00%		420 VA					
Other		18 VA		100.00%		18 VA		Total Conn. Load: 8167 VA			
Receptacle		6840 VA		100.00%		6840 VA		Total Est. Demand: 8167 VA			
Lighting		909 VA		100.00%		909 VA		Total Conn.: 34 A			
								Total Est. Demand: 34 A			
Notes:											

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No.	Date	Description	By



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CLIENT:

PROJECT NAME:
Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:
PANEL SCHEDULES, SINGLE LINE DIAGRAM & PHOTOS

DISCIPLINE: ELECTRICAL	
DRAFTER: J.B.	SCALE: N.T.S.
DESIGNER: L.C.	DATE: 2026-07-30
APPROVER: L.C.	CHECKER: L.C.
PROJECT No.: Z0029853	DRAWING No.: E-601
SHEET No.: 5 of 6	



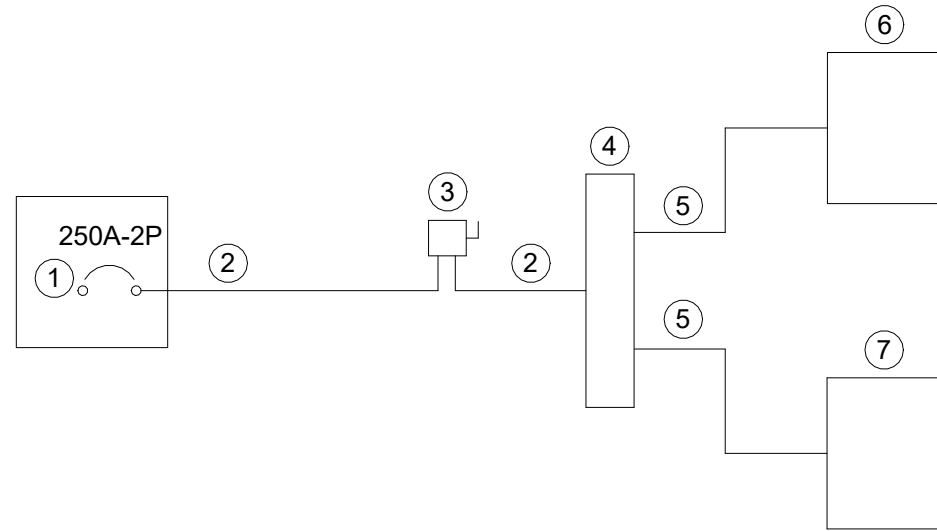
3 EXISTING SWITCHBOARD WEST
SCALE: N.T.S.



2 EXISTING SWITCHBOARD EAST
SCALE: N.T.S.

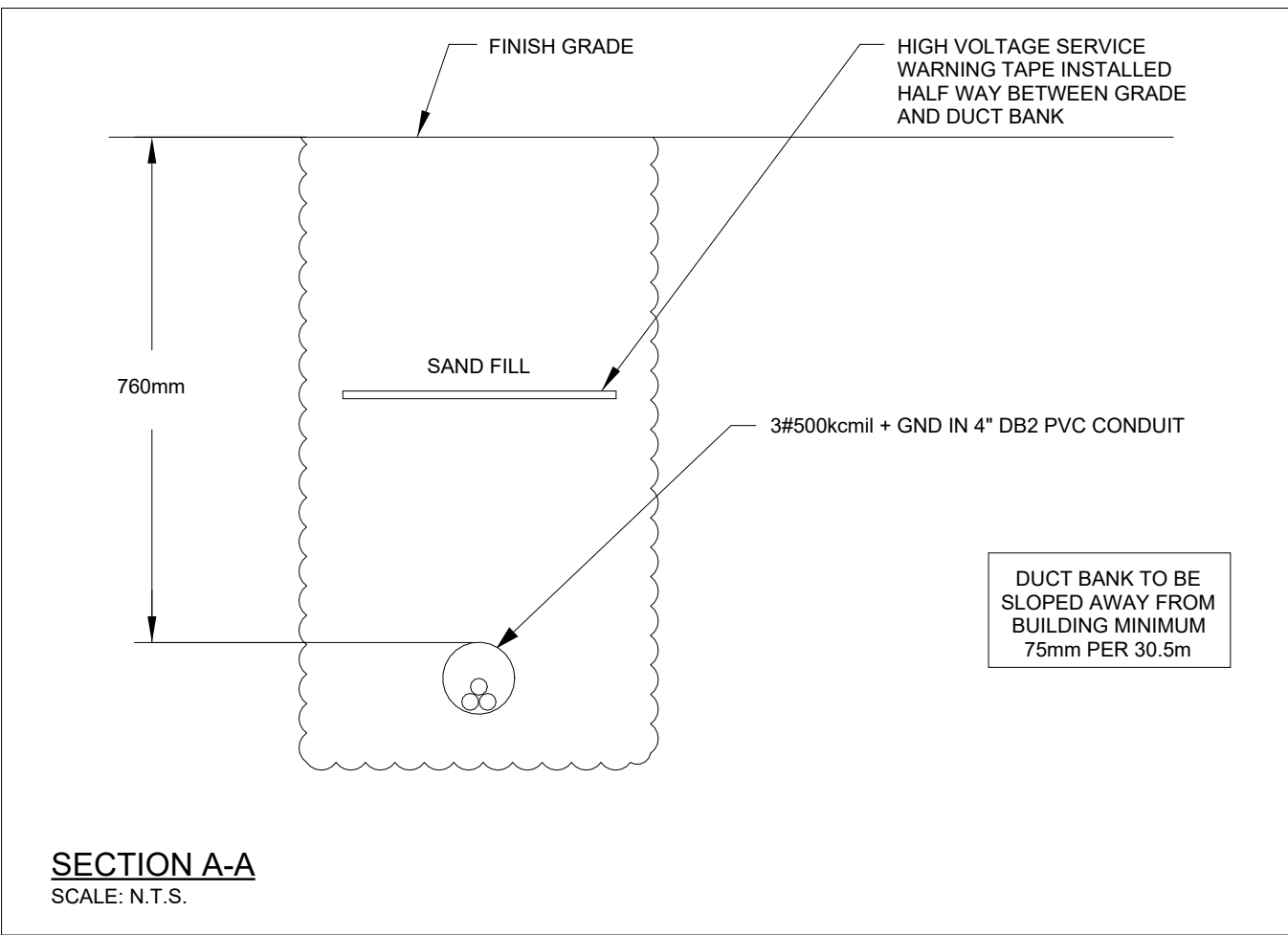
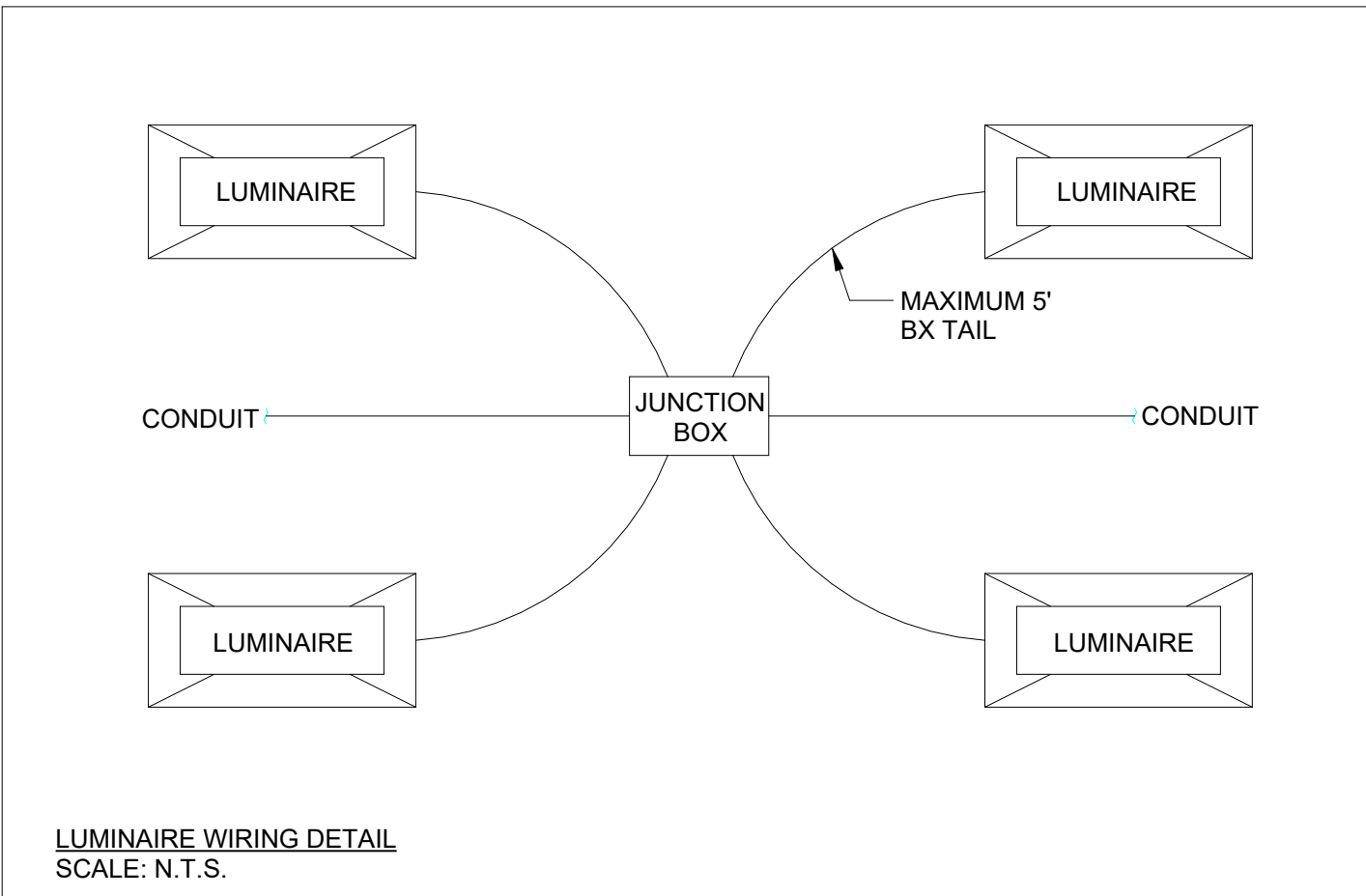
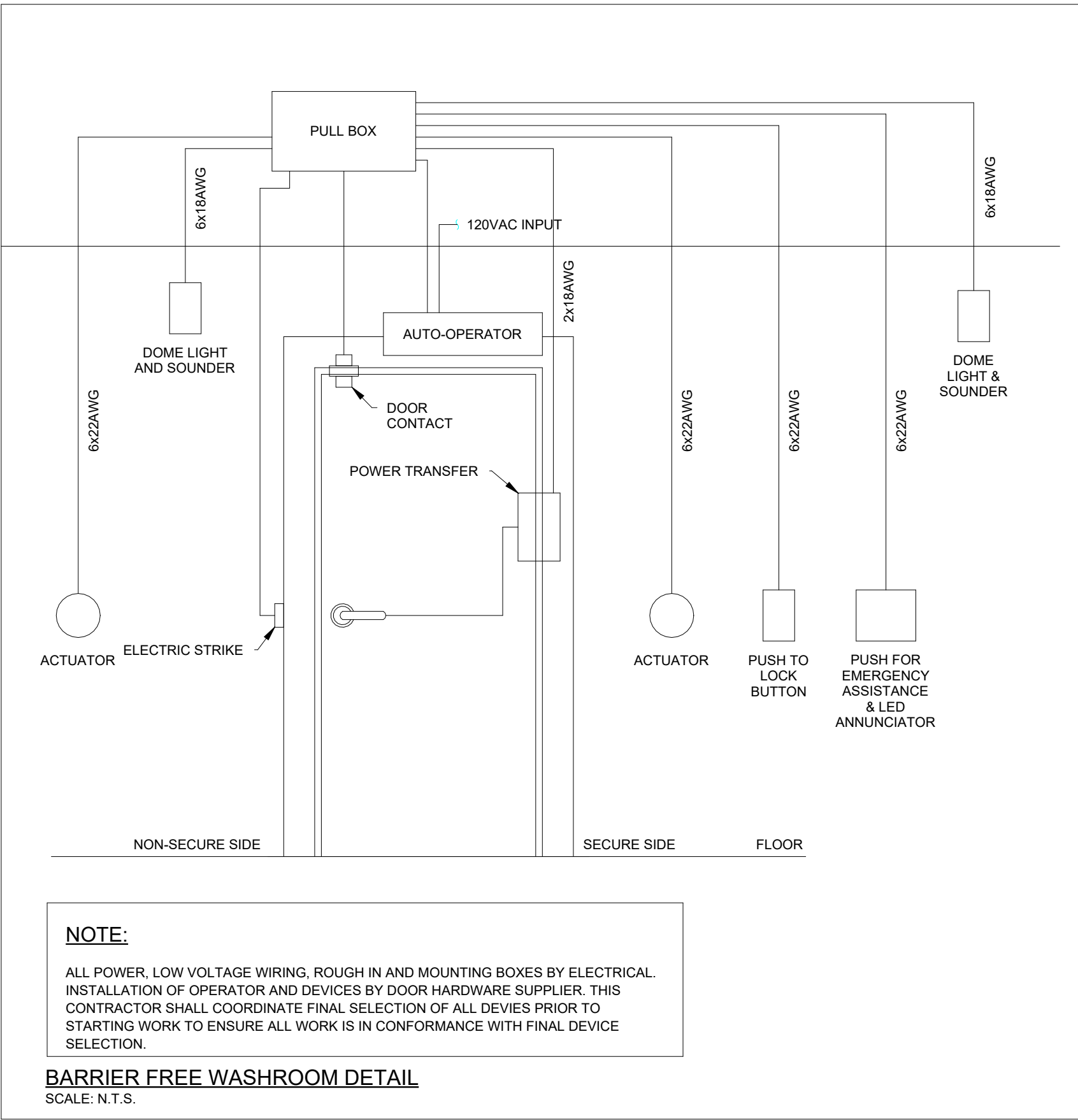
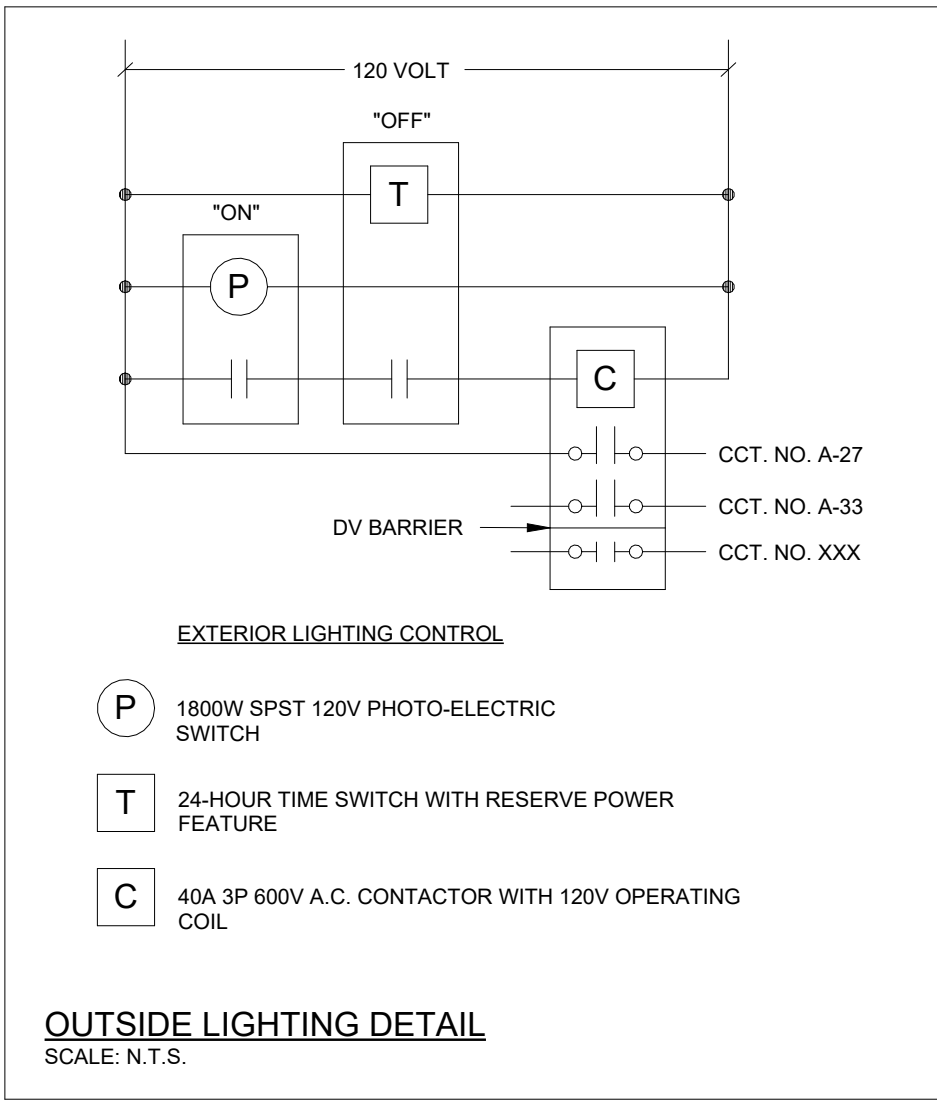


1 EXISTING SWITCHBOARD ENLARGED
SCALE: N.T.S.



- NOTES:
- 1 PROVIDE NEW BREAKER AS NOTED INSIDE EXISTING SWITCHBOARD. EXISTING SWITCHBOARD IS A SIEMENS SMP S.O. AECAVPR-007.
 - 2 PROVIDE 3#500 kcmil + GND CU CONDUCTORS IN 4" CONDUIT.
 - 3 PROVIDE NEW 400A/250AF 240V 1PHASE DISCONNECT. PROVIDE TYPE J FUSES WITH 25KAIC RATING.
 - 4 PROVIDE NEW 400A SPLITTER.
 - 5 PROVIDE 3#3/0 AWG + GND CU CONDUCTORS IN 2-1/2" CONDUIT.
 - 6 PROVIDE NEW PANEL 'A' MOUNTED IN UTILITY ROOM 012. REFER TO PANEL SCHEDULE FOR DETAILS.
 - 7 PROVIDE NEW PANEL 'B' MOUNTED IN UTILITY ROOM 012. REFER TO PANEL SCHEDULE FOR DETAILS.

PARTIAL SINGLE LINE DIAGRAM
SCALE: N.T.S.



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STAMPS:



ENGINEER:



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CLIENT:

PROJECT NAME:

Ganaraska Forest Center - Auxiliary Building

SHEET TITLE:

DETAILS

DISCIPLINE:

ELECTRICAL

DRAFTER:	J.B.	SCALE:	N.T.S.
DESIGNER:	L.C.	DATE:	2026-07-30
APPROVER:	L.C.	CHECKER:	L.C.
PROJECT No:	Z0029853	DRAWING No:	E-602
SHEET No:	6 of 6		